

GenCore version 5.1.4_p5_4578
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OM protein - nucleic search, using frame_plus_p2n model

Run on: May 17, 2003, 06:13:09 ; Search time 51 Seconds
(without alignments)
487.075 Million cell updates/sec

Title: US-09-724-000A-5

Perfect score: 442
Sequence: 1 MRLVLVSLLCILLCSIF.....PCKLEPEPLWVPGALPQV 81

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO.spool/US09724000/runat_16052003_145501_17219/app.query.fasta_1.263
-DB=Issued Patents NA -QMT=fastrap -SUFFIX=rni -MINMATCH=0.1 -LOFPCI=0
-LOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
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-WAEI TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents NA:
1: /cgn2_6/ptodata/1/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PTCUS.COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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C 2	85	19.2	1979	2	US-08-649-619B-1
C 3	85	19.2	2030	1	US-08-330-518-1
C 4	85	19.2	2030	1	US-08-330-283-1
C 5	85	19.2	2030	2	US-08-646-248-1
C 6	85	19.2	2030	5	PCT-US95-13924-1
C 7	85	19.2	2030	5	PCT-US95-13931-1
C 8	78	17.6	1813	5	PCT-US94-12883-3
C 9	78	17.6	1898	1	US-08-342-411A-1
C 10	74.5	16.9	48974	4	US-08-920-422-17
C 11	73.5	16.6	1600	4	US-09-029-027B-1
C 12	73.5	16.6	2542	4	US-09-305-681-5

13	72	16.3	1493	2	US-08-752-307B-6	Sequence 6, Appli
14	72	16.3	1493	4	US-09-707-802-6	Sequence 6, Appli
15	72	16.3	1493	4	US-09-991-326-6	Sequence 6, Appli
16	72	16.3	2244	4	US-09-354-151-1	Sequence 1, Appli
17	72	16.3	4086	1	US-08-313-181-1	Sequence 1, Appli
C 18	71.5	16.2	888	4	US-09-215-694-30	Sequence 30, Appli
19	71.5	16.2	1736	4	US-09-162-524-2	Sequence 2, Appli
C 20	71.5	16.2	1798	4	US-09-305-681-1	Sequence 1, Appli
C 21	71.5	16.2	2416	1	US-08-592-126-61	Sequence 61, Appli
22	71.5	16.2	31328	4	US-09-215-694-19	Sequence 19, Appli
23	71	16.1	3807	2	US-08-816-755-1	Sequence 1, Appli
24	71	16.1	3807	4	US-09-090-673-1	Sequence 1, Appli
25	70.5	16.0	2219	1	US-08-606-322-1	Sequence 1, Appli
26	70.5	16.0	3502	2	US-08-724-394A-16	Sequence 16, Appli
27	70.5	16.0	4040	4	US-08-664-962B-1	Sequence 1, Appli
28	70.5	16.0	4040	4	US-09-311-743-1	Sequence 1, Appli
29	70	15.8	2743	1	US-08-396-479B-3	Sequence 3, Appli
30	70	15.8	2743	1	US-08-818-823-3	Sequence 3, Appli
31	70	15.8	2749	2	US-08-144-981A-1	Sequence 1, Appli
32	70	15.8	2751	3	US-09-037-190-45	Sequence 45, Appli
33	70	15.8	2751	3	US-09-037-192-45	Sequence 45, Appli
34	70	15.8	2751	3	US-09-037-143-45	Sequence 45, Appli
35	70	15.8	2751	4	US-09-049-691-45	Sequence 45, Appli
36	70	15.8	2751	4	US-08-260-174-45	Sequence 45, Appli
37	70	15.8	2751	4	US-09-338-128A-45	Sequence 45, Appli
38	70	15.8	2751	4	US-09-037-192-45	Sequence 45, Appli
39	70	15.8	2853	5	PCT-US94-07297-36	Sequence 36, Appli
40	70	15.8	5502	4	US-09-232-346-45	Sequence 45, Appli
41	69.5	15.7	1110	4	US-08-462-509B-3	Sequence 3, Appli
42	69.5	15.7	1110	5	PCT-US95-05616-3	Sequence 3, Appli
43	69.5	15.7	1654	3	US-08-991-426-3	Sequence 3, Appli
44	69.5	15.7	1654	3	US-09-143-470-3	Sequence 3, Appli
C 45	69.5	15.7	2959	1	US-08-408-188A-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-08-649-619B-2/C

; Sequence 2, Application US/08649619B

; Patent No. 5871916

; GENERAL INFORMATION:

; APPLICANT: NAKAMURA, YUSUKE

; TITLE OF INVENTION: ECDN PROTEIN AND DNA

; TITLE OF INVENTION: ENCODING THE SAME

; NUMBER OF SEQUENCES: 11

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: FLYNN, THIEL, BOUTELL &

; ADDRESSEE: TANIS, P.C.

; STREET: 2026 Rambling Road

; CITY: Kalamazoo

; STATE: Michigan

; COUNTRY: USA

; ZIP: 49008-1699

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb

; MEDIUM TYPE: storage

; COMPUTER: IBM PC/XT/AT Compatible

; OPERATING SYSTEM: MS-DOS 5.0

; SOFTWARE: WordPerfect 5.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/649,619B

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: J96-226270

; FILING DATE: 21-SEPT-1994

; APPLICATION NUMBER: PCT/JP95/01909

; FILING DATE: 21-SEPT-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Terrylene F. Chapman

; REGISTRATION NUMBER: 32549

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,248
FILING DATE: 14-MAY-1996
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/330,283
FILING DATE: 27-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Doilan, Catherine A.
REGISTRATION NUMBER: 36,502
REFERENCE/DOCKET NUMBER: 19327
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-4283
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2030 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-646-248-1

Alignment Scores:
Pred. No.: 2.13 Length: 2030
Score: 85.00 Matches: 26
Percent Similarity: 47.76% Conservatives: 6
Best Local Similarity: 38.81% Mismatches: 17
Query Match: 19.23% Indels: 18
DB: 2 Gaps: 4

US-09-724-000A-5 (1-81) x US-08-646-248-1 (1-2030)

QY 22 ThrGluGlyLysArgProAlaLysAla-----TTPSerGlyArgGThrArgLeu 39
Db 1022 ACTGGGGTCTGCGCCAGGGCCAGGCGGTGACTTTGGGCTGTGCGAGAGAGCGTT 963
QY 40 CysCysHisArgVal---ProSerProAsnSerThrAsnLeuLysGlyHisValArg 58
Db 962 TGTGCACTGAGTTGGCCGCCACCACTGCTGATCATTA----- 921
QY 59 LeuCysLysProCysLysLeuGluPro-----GluProArgLeuTrpValVal 74
Db 920 -----GTTCTTGAGCGCGTGTAGCTGGACACCCCTCGCCTTCCCGGAGC 876
QY 75 ProGlyAlaLeuProGlnVal 81
Db 875 CTGGCTGCTGCTCAGATC 855

RESULT 6
PCT-US95-13924-1/c
Sequence 1, Application PC/TUS9513924
GENERAL INFORMATION:
APPLICANT: Friedman, Eitan
APPLICANT: Holloway, M. Katharine
APPLICANT: Rodan, Gideon
APPLICANT: Rutledge, Su Jane
APPLICANT: Schmidt, Azriel
APPLICANT: Vogel, Robert
TITLE OF INVENTION: METHOD FOR FINDING RECEPTOR POTENTIATORS
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 East Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: US
ZIP: 07065-0907

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13924
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Quagliato, Carol S.
REGISTRATION NUMBER: 35,330
REFERENCE/DOCKET NUMBER: 19327 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-3809
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2030 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
PCT-US95-13924-1

Alignment Scores:
Pred. No.: 2.13 Length: 2030
Score: 85.00 Matches: 26
Percent Similarity: 47.76% Conservatives: 6
Best Local Similarity: 38.81% Mismatches: 17
Query Match: 19.23% Indels: 18
DB: 5 Gaps: 4

US-09-724-000A-5 (1-81) x PCT-US95-13924-1 (1-2030)

QY 22 ThrGluGlyLysArgProAlaLysAla-----TTPSerGlyArgGThrArgLeu 39
Db 1022 ACTGGGGTCTGCGCCAGGGCCAGGCGGTGACTTTGGGCTGTGCGAGAGAGCGTT 963
QY 40 CysCysHisArgVal---ProSerProAsnSerThrAsnLeuLysGlyHisValArg 58
Db 962 TGTGCACTGAGTTGGCCGCCACCACTGCTGATCATTA----- 921
QY 59 LeuCysLysProCysLysLeuGluPro-----GluProArgLeuTrpValVal 74
Db 920 -----GTTCTTGAGCGCGTGTAGCTGGACACCCCTCGCCTTCCCGGAGC 876
QY 75 ProGlyAlaLeuProGlnVal 81
Db 875 CTGGCTGCTGCTCAGATC 855

RESULT 7
PCT-US95-13931-1/c
Sequence 1, Application PC/TUS9513931
GENERAL INFORMATION:
APPLICANT: Friedman, Eitan
APPLICANT: Holloway, M. Katharine
APPLICANT: Rodan, Gideon
APPLICANT: Schmidt, Azriel
APPLICANT: Vogel, Robert
TITLE OF INVENTION: USE OF RECEPTOR POTENTIATORS
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 East Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: US
ZIP: 07065-0907
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk


```

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/13931
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Quagliato, Carol S.
; REGISTRATION NUMBER: 35,330
; REFERENCE/DOCKET NUMBER: 19316 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 594-3809
; TELEFAX: (908) 594-4720
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2030 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; PCT-US95-13931-1

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Alignment Scores:
Pred. No.: 2,13 Length: 2030
Score: 85.00 Matches: 26
Percent Similarity: 47.76% Conservative: 6
Best Local Similarity: 38.81% Mismatches: 17
Query Match: 19.23% Indels: 18
DB: 5 Gaps: 4

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US-09-724-000A-5 (1-81) x PCT-US95-13931-1 (1-2030)

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Qy 22 ThrGluGlyLysArgProAlaLysAla-----TrpSerGlyArgThrArgLeu 39
Db 1022 ACTGGGGTCTGCGCCAGGCGCCAGGCGTGACTTTGGGCTGTCGAGAGAGCGTT 963
Qy 40 CysCysHisArgVal---ProSerProAsnSerThrAsnLeuLysGlyHisHisValArg 58
Db 962 TGTTCAGTCTGAGTTGGCGCCAGGCGCCAGGCGTGACTTTGGGCTGTCGAGAGAGCGTT 921
Qy 59 LeuCysLysProCysLysLeuGluPro-----GluProArgLeuTrpValVal 74
Db 920 -----GTTCTTGAGCGCGTGTAGTGTGACACCCCTGCTCTCCCGGAGC 876
Qy 75 ProGlyAlaLeuProGlnVal 81
Db 875 CTGGCTGCTGCTCAGATC 855

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RESULT 8
PCT-US94-12883-3/c
; Sequence 3, Application PC/TUS9412883
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: UBIQUITOUS NUCLEAR RECEPTOR: COMPOSITIONS AND
; TITLE OF INVENTION: METHODS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: United States of America
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: PatentIn Release #1.0, Version
; SOFTWARE: #1.25
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: PCT/US94/12883
; FILING DATE: Concurrently Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/152,003
; FILING DATE: 10-NOV-1993
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: BARBARA S. KITCHELL
; REGISTRATION NUMBER: 33,928
; REFERENCE/DOCKET NUMBER: ARCD154P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679
; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1813 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; PCT-US94-12883-3

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Alignment Scores:
Pred. No.: 11,7 Length: 1813
Score: 78.00 Matches: 25
Percent Similarity: 46.27% Conservative: 6
Best Local Similarity: 37.31% Mismatches: 18
Query Match: 17.65% Indels: 18
DB: 5 Gaps: 4

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US-09-724-000A-5 (1-81) x PCT-US94-12883-3 (1-1813)

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Qy 22 ThrGluGlyLysArgProAlaLysAla-----TrpSerGlyArgThrArgLeu 39
Db 760 ACTGGGGTCTGCGCCAGGCGCCAGGCGTGACTTTGGGCTGTCGAGAGAGCGTT 701
Qy 40 CysCysHisArgVal---ProSerProAsnSerThrAsnLeuLysGlyHisHisValArg 58
Db 700 TGTTCAGTCTGAGTTGGCGCCAGGCGCCAGGCGTGACTTTGGGCTGTCGAGAGAGCGTT 659
Qy 59 LeuCysLysProCysLysLeuGluPro-----GluProArgLeuTrpValVal 74
Db 658 -----GTTCTTGAGCGCGTGTAGTGTGACACCCCTGCTCTCCCGGAGC 614
Qy 75 ProGlyAlaLeuProGlnVal 81
Db 613 CTGGCTGCTGCTCAGATC 593

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RESULT 9
US-08-342-411A-1/c
; Sequence 1, Application US/08342411A
; Patent No. 5639616
; GENERAL INFORMATION:
; APPLICANT: LIAO, Shutsung
; APPLICANT: SONG, Ching
; TITLE OF INVENTION: UBIQUITOUS NUCLEAR RECEPTOR:
; TITLE OF INVENTION: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/305.681
; FILING DATE:
; CLASSIFICATION:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2542 base pairs
; TYPE: nucleotide
; STRANDEDNESS: single strand
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
US-09-305-681-5

Alignment Scores:
Pred. No.: 61.6 Length: 2542
Score: 73.50 Matches: 22
Percent Similarity: 44.64% Conservative: 3
Best Local Similarity: 39.29% Mismatches: 22
Query Match: 16.63% Indels: 9
DB: 4 Gaps: 4

US-09-724-000A-5 (1-81) x US-09-305-681-5 (1-2542)

Qy 24 GlyLysArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCysCys----- 41
Db 1400 GGGGACGCGCGCTGCTGCGGTACGAGGGGT-----CCTCGCTTATGCTGTCAATAA 1347
Qy 42 HisArgValProSerProAsnSerThrAsnLeuLysGlyHisHisValArg-----Leu 59
Db 1346 CATCGGGCTTAAGCCCCCACCAGCACGTAGCGAGGGCCATTGCCATAGAGGATGGAGG 1287
Qy 60 CysLysProCysLysLeuGluPro-----GluProArgLeuTrp 72
Db 1286 TGTAGGACTTGTGTCTGAGGCTTGTCTGGGGCCGAGACCGAAATGG 1239

RESULT 13

US-08-752-307B-6
; Sequence 6, Application US/08752307B
; Patent No. 5952171

; GENERAL INFORMATION:
; APPLICANT: McCarthy, Sean A.
; APPLICANT: Gearing, David P.
; APPLICANT: Levinson, Douglas A.
; TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES
; TITLE OF INVENTION: ENCODING NOVEL SECRETED OR MEMBRANE-ASSOCIATED PROTEIN
; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/752.307B

FILING DATE: 19-NOV-1996

CLASSIFICATION: 435

PRIOR APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Melkielejohn, Ph.D., Anita L.

REGISTRATION NUMBER: 35,283

REFERENCE/DOCKET NUMBER: 09404/020001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070

TELEFAX: 617-542-8906

TELEX: 200154
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1493 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 99...1493
US-08-752-307B-6

Alignment Scores:
Pred. No.: 43.8 Length: 1493
Score: 72.00 Matches: 18
Percent Similarity: 39.39% Conservative: 8
Best Local Similarity: 27.27% Mismatches: 24
Query Match: 16.29% Indels: 16
DB: 2 Gaps: 3

US-09-724-000A-5 (1-81) x US-08-752-307B-6 (1-1493)

Qy 27 ArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCysCys----- 41
Db 1174 AGGCCATCTCCATCC---GTGGGCTCAGCAACGAGACGCTCTCATCACCTCGGCCGAGA 1230
Qy 42 HisArgValProSerProAsnSerThrAsnLeuLysGlyHis----- 55
Db 1231 AGAGCCATTCGGGGCTTACCAGTGTCTGCTACCCGAAGCCGAGACCCCGAGGACT 1290
Qy 56 -----HisValArgLeuCysLysProCysLysLeuGluProGluProArgLeu 71
Db 1291 TTGCCATCATTTGCACTTGAGGATGCGACGCCCGCCGATCGTCTGCTCTTCAGCGAGAAGG 1350

Qy 72 TrpValValProGlyAla 77

Db 1351 TGGTCAACCCCGGGGAGC 1368

RESULT 14

US-09-707-802-6
; Sequence 6, Application US/09707802
; Patent No. 6391586

; GENERAL INFORMATION:

APPLICANT: McCarthy, Sean A.

APPLICANT: Gearing, David P.

APPLICANT: Levinson, Douglas A.

TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES

TITLE OF INVENTION: ENCODING NOVEL SECRETED OR MEMBRANE-ASSOCIATED PROTEIN

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/707.802

FILING DATE: 07-NO. 6391586-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION NUMBER: 08/752.307

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Melkielejohn, Ph.D., Anita L.

REGISTRATION NUMBER: 35,283

REFERENCE/DOCKET NUMBER: 09404/020001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: 200154

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 1493 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: Coding Sequence

LOCATION: 99...1493

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-09-707-802-6

Alignment Scores:
Pred. No.: 43.8 Length: 1493
Score: 72.00 Matches: 18
Percent Similarity: 39.39% Conservative: 8
Best Local Similarity: 27.27% Mismatches: 24
Query Match: 16.29% Indels: 16
DB: 4 Gaps: 3

US-09-724-000A-5 (1-81) x US-09-707-802-6 (1-1493)

Qy 27 ArgProAlaLysAlaTrpSerGlyArgThrArgLeuCysCys----- 41
Db 1174 AGGCCATCTCCATCC---GTGGGCTCAGCAACGAGACGCTCATCACCTCGGCCCCAGA 1230
Qy 42 HisArgValProSerProAsnSerThrAsnLeuLysGlyHis----- 55
Db 1231 AGAGCCATTCCGGGCGCTACCAAGTCTCGCTACCCGCAAGCCAGACGCCCCAGGACT 1290
Qy 56 -----HisValArgLeuCysLysProCysLysLeuGluProGluProArgLeu 71
Db 1291 TTGCCATCATTCGACTTGAGGATGCACGCCCGCATCGTCTCGTCTTCAGCGAGAAGG 1350
Qy 72 TrpValValProGlyAla 77
Db 1351 TGGTCAACCCCGGGGAGC 1368

RESULT 15

US-09-991-326-6

Sequence 6, Application US/09991326

Patent No. 6395872

GENERAL INFORMATION:

APPLICANT: McCarthy, Sean A.

Gearing, David P.

Levinson, Douglas A.

TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES

ENCODING NOVEL SECRETED OR MEMBRANE-ASSOCIATED PROTEIN

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/991,326

FILING DATE: 21-Nov. 6395872-2001

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/752,307

FILING DATE: 19-NOV-1996

ATTORNEY/AGENT INFORMATION:

NAME: Meiklejohn, Ph.D., Anita L.
REGISTRATION NUMBER: 35,283
REFERENCE/DOCKET NUMBER: 09404/020002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: 200154

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 1493 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: Coding Sequence

LOCATION: 99...1493

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-09-991-326-6

Alignment Scores:
Pred. No.: 43.8 Length: 1493
Score: 72.00 Matches: 18
Percent Similarity: 39.39% Conservative: 8
Best Local Similarity: 27.27% Mismatches: 24
Query Match: 16.29% Indels: 16
DB: 4 Gaps: 3

US-09-724-000A-5 (1-81) x US-09-991-326-6 (1-1493)

Qy 27 ArgProAlaLysAlaTrpSerGlyArgThrArgLeuCysCys----- 41
Db 1174 AGGCCATCTCCATCC---GTGGGCTCAGCAACGAGACGCTCATCACCTCGGCCCCAGA 1230
Qy 42 HisArgValProSerProAsnSerThrAsnLeuLysGlyHis----- 55
Db 1231 AGAGCCATTCCGGGCGCTACCAAGTCTCGCTACCCGCAAGCCAGACGCCCCAGGACT 1290
Qy 56 -----HisValArgLeuCysLysProCysLysLeuGluProGluProArgLeu 71
Db 1291 TTGCCATCATTCGACTTGAGGATGCACGCCCGCATCGTCTCGTCTTCAGCGAGAAGG 1350
Qy 72 TrpValValProGlyAla 77
Db 1351 TGGTCAACCCCGGGGAGC 1368

Search completed: May 17, 2003, 13:36:54

Job time : 65 secs


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; Publication No. US20030069180A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secret, Heather
; APPLICANT: Wang, Aijun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.527C2
; CURRENT APPLICATION NUMBER: US/10/146.502
; CURRENT FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2241
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 671
; LENGTH: 379
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 20, 21
; OTHER INFORMATION: n = A,T,C or G
US-10-146-502-671

Alignment Scores:
Pred. No.: 2,81e-46 Length: 379
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-724-000A-5 (1-81) x US-10-146-502-671 (1-379)

Qy 1 MetArgLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20
Db 301 ATGAGGCTTCCTAGTCTCTTCCAGCGCTGCTGTATCTGCTCTCTCTCCATCTTC 242

Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40
Db 241 TCCACAGAAGGGAAGAGGCGCTCTGCCAAGGCGTGTGTCAGGAGAGAACAGGCTCTGC 182

Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisHisValArgLeuCys 60
Db 181 TGCCACCAGTCCCTAGTCCCACTCAACAACTGAAAGGACATCATGTGAGGCTCTGT 122

Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValValProGlyAlaLeuProGln 80
Db 121 AAACCATGCAAGCTTGAGCCAGAGCCCGCCTTTGGGTGGTGGCTGGGGCACTCCACAG 62

Qy 81 Val 81
Db 61 GTG 59

RESULT 5
US-09-981-353-177
; Sequence 177, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981.353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 177
; LENGTH: 800
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature

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; OTHER INFORMATION: Incyte ID No. US20020160382A1 1736965CB1
US-09-981-353-177

Alignment Scores:
Pred. No.: 7,13e-46 Length: 800
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-724-000A-5 (1-81) x US-09-981-353-177 (1-800)

Qy 1 MetArgLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20
Db 25 ATGAGGCTTCCTAGTCTCTTCCAGCGCTGCTGTATCTGCTCTCTCTCCATCTTC 84

Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40
Db 85 TCCACAGAAGGGAAGAGGCGCTCTGCCAAGGCGTGTGTCAGGAGAGAACAGGCTCTGC 144

Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisHisValArgLeuCys 60
Db 145 TGCACCGAGTCCCTAGTCCCACTCAACAACTGAAAGGACATCATGTGAGGCTCTGT 204

Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValValProGlyAlaLeuProGln 80
Db 205 AAACCATGCAAGCTTGAGCCAGAGCCCGCCTTTGGGTGGTGGCTGGGGCACTCCACAG 264

Qy 81 Val 81
Db 265 GTG 267

RESULT 6
US-10-028-072-149
; Sequence 149, Application US/10028072
; Publication No. US20030004311A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang
; TITLE OF INVENTION:
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/028,072
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17

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[illegible]

RESULT 7

US-10-121-049-149

Sequence 149, Application US/10121049

Publication No. US2003002239A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Beresini, Maureen

APPLICANT: DeForge, Laura

APPLICANT: Desnoyers, Luc

APPLICANT: Filvaroff, Ellen

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Gurney, Austin L.

APPLICANT: Sherwood, Steven

APPLICANT: Smith, Victoria

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K

APPLICANT: Wood, William

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

TITLE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P3330R1C17

CURRENT APPLICATION NUMBER: US/10/121. 049

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; SEQ ID NO 149
;
; LENGTH: 804
;
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-904-149

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Db 102 TCCACAGAGGAAGAGGGCTCTCCAGAGCGCTGGTCAGGACAGAACAGGCTCTGC 161
Qy 41 CysHisArgValProSerProAsnSerThrAenLeuLysGlyHisValArgLeuCys 60
Db 162 TGCCACCGAGTCCCTAGCCCCCACTCAACAACCTGAAGGACATCATGTGAGGCTCTGT 221
Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80
Db 222 AAACCATGCAAGCTTGAGCCAGAGCCCGCCTTTGGGTGGTGGCTGGGGCACTCCACAG 281
Qy 81 Val 81
Db 282 GTG 284

RESULT 11
US-10-176-918-149
; Sequence 149, Application US/10176918
; Publication No. US20030027275A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C382
; CURRENT APPLICATION NUMBER: US/10/176,918
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-176-918-149

Alignment Scores:
Pred. No.: 7.18e-46 Length: 804
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-724-000A-5 (1-81) x US-10-176-918-149 (1-804)
Qy 1 MetArgLeuLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20
Db 42 ATGAGGCTTCTAGTCTTCCAGCGCTGCTGTATCTCTCTCTCTCTCTCTCTCTCTCTC 101
Qy 21 SerThrGluGlyLysArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40
Db 102 TCCACAGAGGAAGAGCGCTCTCCAGGCGCTGGTCAGGACAGAACAGGCTCTGC 161
Qy 41 CysHisArgValProSerProAsnSerThrAenLeuLysGlyHisValArgLeuCys 60
Db 162 TGCCACCGAGTCCCTAGCCCCCACTCAACAACCTGAAGGACATCATGTGAGGCTCTGT 221
Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80
Db 222 AAACCATGCAAGCTTGAGCCAGAGCCCGCCTTTGGGTGGTGGCTGGGGCACTCCACAG 281
Qy 81 Val 81
Db 282 GTG 284

RESULT 13
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Db 222 AAACCATGCAAGCTTGAGCCAGAGCCCGCCTTTGGGTGGTGGCTGGGGCACTCCACAG 281
Qy 81 Val 81
Db 282 GTG 284

RESULT 12
US-10-176-921-149
; Sequence 149, Application US/10176921
; Publication No. US20030027276A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C288
; CURRENT APPLICATION NUMBER: US/10/176,921
; CURRENT FILING DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-176-921-149

Alignment Scores:
Pred. No.: 7.18e-46 Length: 804
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-724-000A-5 (1-81) x US-10-176-921-149 (1-804)
Qy 1 MetArgLeuLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20
Db 42 ATGAGGCTTCTAGTCTTCCAGCGCTGCTGTATCTCTCTCTCTCTCTCTCTCTCTCTC 101
Qy 21 SerThrGluGlyLysArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40
Db 102 TCCACAGAGGAAGAGCGCTCTCCAGGCGCTGGTCAGGACAGAACAGGCTCTGC 161
Qy 41 CysHisArgValProSerProAsnSerThrAenLeuLysGlyHisValArgLeuCys 60
Db 162 TGCCACCGAGTCCCTAGCCCCCACTCAACAACCTGAAGGACATCATGTGAGGCTCTGT 221
Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80
Db 222 AAACCATGCAAGCTTGAGCCAGAGCCCGCCTTTGGGTGGTGGCTGGGGCACTCCACAG 281
Qy 81 Val 81
Db 282 GTG 284

RESULT 13
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US-10-137-865-149

Sequence 149, Application US/10137865
Publication No. US20030032155A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Beresini, Maureen

APPLICANT: DeForge, Laura

APPLICANT: Desnoyers, Luc

APPLICANT: Filvaroff, Ellen

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Gurney, Austin L.

APPLICANT: Sherwood, Steven

APPLICANT: Smith, Victoria

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K

APPLICANT: Wood, William

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P3330R1C154

CURRENT APPLICATION NUMBER: US/10/137,865
CURRENT FILING DATE: 2002-05-03

Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550

SEQ ID NO 149

LENGTH: 804

TYPE: DNA

ORGANISM: Homo Sapien

US-10-137-865-149

Alignment Scores:

Pred. No.: 7.18e-46 Length: 804
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-724-000A-5 (1-81) x US-10-137-865-149 (1-804)

Qy 1 MetArgLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20

Db 42 ATGAGGCTTCCTAGTCCCTTTCCAGGCTGCTCTGTATCTCTGCTTCTCTCCATCTTC 101

Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40

Db 102 TCCACAGAAGGAGAGAGCGTCTGCCAAGGCTGCTCAGGAGAGAACCCAGGCTCTGC 161

Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCys 60

Db 162 TGCCACCGAGTCCCTAGCCCCAACTCAACAAACCTGAAAGGACATCATGTGAGGCTCTGT 221

Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80

Db 222 AAACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGGTGGTGGCTGGGGCACTCCACAG 281

Qy 81 Val 81

Db 282 GTG 284

RESULT 14

US-10-140-474-149

Sequence 149, Application US/10140474

Publication No. US20030032156A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Beresini, Maureen

APPLICANT: DeForge, Laura

APPLICANT: Desnoyers, Luc

APPLICANT: Filvaroff, Ellen

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Gurney, Austin L.

APPLICANT: Sherwood, Steven

APPLICANT: Smith, Victoria

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K

APPLICANT: Wood, William

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P3330R1C162

CURRENT APPLICATION NUMBER: US/10/140,474

CURRENT FILING DATE: 2002-05-06

Prior Application removed - See Palm or File Wrapper

NUMBER OF SEQ ID NOS: 550

SEQ ID NO 149

LENGTH: 804

TYPE: DNA

ORGANISM: Homo Sapien

US-10-140-474-149

Alignment Scores:

Pred. No.: 7.18e-46 Length: 804
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-724-000A-5 (1-81) x US-10-140-474-149 (1-804)

Qy 1 MetArgLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20

Db 42 ATGAGGCTTCCTAGTCCCTTTCCAGGCTGCTCTGTATCTCTGCTTCTCTCCATCTTC 101

Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40

Db 102 TCCACAGAAGGAGAGCGTCTGCCAAGGCTGCTCAGGAGAGAACCCAGGCTCTGC 161

Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCys 60

Db 162 TGCCACCGAGTCCCTAGCCCCAACTCAACAAACCTGAAAGGACATCATGTGAGGCTCTGT 221

Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80

Db 222 AAACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGGTGGTGGCTGGGGCACTCCACAG 281

Qy 81 Val 81

Db 282 GTG 284

RESULT 15

US-10-142-431-149

Sequence 149, Application US/10142431

Publication No. US20030036179A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Beresini, Maureen

APPLICANT: DeForge, Laura

APPLICANT: Desnoyers, Luc

APPLICANT: Filvaroff, Ellen

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Gurney, Austin L.

APPLICANT: Sherwood, Steven

APPLICANT: Smith, Victoria

Search completed: May 17, 2003, 14:37:03
Job time : 152 secs

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GenCore version 5.1.4_p5.4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: May 17, 2003, 03:25:14 ; Search time 159 Seconds
(without alignments)
1147.244 Million cell updates/sec

Title: US-09-724-000A-5

Perfect score: 442

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Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-LOOPEXT=0 - UNITS=bits - START=1 - END=1 - MATRIX=blosum62 - TRANS=human40.cdi
-LIST=45 - DOALIGN=200 - THR SCORE=pct - THR MAX=100 - THR MTN=0 - ALIGN=15
-MODE=LOCAL - OUTFTN=pct - NORM=ext - HEAPSIZ=500 - MINLEN=0 - MAXLEN=2000000000
-USER=US09724000 @CIGN 1 1 263 @runat 16052003 145459 17136 -NCPU=6 -ICPU=3
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-WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
C 1	442	100.0	382	24	ABL37082	Human colon tumor
C 2	442	100.0	485	24	ABK27569	Human colon cancer
C 3	442	100.0	804	22	AAS21318	Human cDNA sequenc
C 4	442	100.0	806	24	AAD27025	Human secreted epi
C 5	442	100.0	908	22	AAF97898	Human secreted pro
C 6	400	90.5	797	21	AAAF2230	Human CASB gene pa
C 7	400	90.5	801	21	AAAF2224	Human CASB611 cDNA
C 8	228.5	51.7	744	24	AAD27024	Mouse secreted epi
C 9	178	40.3	4159	24	AAD27026	Human secreted epi
C 10	92	20.8	487	22	AAS39569	cDNA encoding nove
C 11	92	20.8	487	22	AAK88908	Human digestive sy
C 12	91	20.6	619	23	ABK41859	cDNA encoding nove
C 13	86.5	19.6	2167	15	AAQ57015	PKC gamma. Bos ta
C 14	85	19.2	1622	21	AAQ98948	Human pancreatic c
C 15	85	19.2	1688	17	AAT27617	Steroid hormone re
C 16	85	19.2	1979	17	AAT27616	Human foetal lung
C 17	85	19.2	2010	24	ABK84201	Human cDNA differe
C 18	85	19.2	2030	15	AAQ63134	Human recombinant
C 19	85	19.2	2030	17	AAT18996	Human steroid rece
C 20	85	19.2	2030	17	AAT30031	NER receptor poten
C 21	84.5	19.1	2958	20	AAAT76729	Murine DIP coding
C 22	81	18.3	858	21	AAF18164	Lung cancer associ
C 23	80.5	18.2	65140	22	AAI17184	Streptomyces nous
C 24	80.5	18.2	125401	22	AAI17186	Streptomyces nous
C 25	79.5	18.0	1385	23	ABL23395	Drosophila melanog
C 26	79.5	18.0	2206	21	AACT74372	Human secreted pro
C 27	79.5	18.0	3549	23	ABL23394	Drosophila melanog
C 28	79	17.9	433	14	AAQ59506	Human brain expres
C 29	79	17.9	1735	18	AAAT77840	Human melanoma ass
C 30	79	17.9	2132	18	AAAT77838	Human melanoma ass
C 31	79	17.9	5535	20	AAZ32057	Human METH2 relate
C 32	79	17.9	5535	20	AAZ21355	Human BAIL gene.
C 33	79	17.9	5535	22	AAC90314	ABO05297 cDNA clon
C 34	78	17.6	1389	23	AAAS84522	DNA encoding novel
C 35	78	17.6	1813	16	AAQ88760	Human ubiquitous n
C 36	78	17.6	1898	18	AAAT79634	DNA encoding novel
C 37	78	17.6	2400	23	AAAS92478	DNA encoding novel
C 38	77.5	17.5	7725	22	AAK87157	Human immune/haema
C 39	77	17.4	3015	24	AB199621	Mouse immune/haema
C 40	77	17.4	17803	22	AAK68676	Human immune/haema
C 41	77	17.4	34289	22	AAK68677	Human immune/haema
C 42	77	17.4	34289	22	AAK85168	Human immune/haema
C 43	76.5	17.3	406	22	AAH42816	Nucleotide sequenc
C 44	76.5	17.3	1539	24	ABN95921	Gene #2419 used to
C 45	76.5	17.3	1539	24	ABL63095	Breast cancer rela

ALIGNMENTS

RESULT 1
ABL37082/c
ID ABL37082 standard; cDNA; 382 BP.
XX ABL37082;
AC ABL37082;
XX
DT 08-APR-2002 (first entry)
XX
DE Human colon tumour antigen polynucleotide SEQ ID NO:671.
XX
KW Human; colon cancer; colon tumour antigen; cytostatic; vaccine;
XX colon tumour metastatic antigen; diagnosis; gene; ss.
OS Homo sapiens.
XX
PN WO200196388-A2.
XX
PD 20-DEC-2001.

Db 259 AACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGTGGTGCTGGGGCACTCCACAG 318
 Qy 81 Val 81
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 Db 319 GTG 321

RESULT 3
 AAS21318
 ID AAS21318 standard; cDNA; 804 BP.
 XX
 AC AAS21318;
 XX
 DT 24-OCT-2001 (first entry)
 XX
 DE Human cDNA sequence encoding for PRO3446 polypeptide.
 XX
 KW Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KW adipocyte; A-peptide; factor VIIA; gene therapy; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200140466-A2.
 XX
 PD 07-JUN-2001.
 XX
 PF 01-DEC-2000; 2000WO-US32678.
 XX
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 09-DEC-1999; 99US-0170262.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 30-DEC-1999; 99WO-US31243.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 10-NOV-2000; 2000WO-US30873.
 XX
 PA (GETH) GENENTECH INC.
 XX
 XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX
 WI: 2001-408281/43.
 DR P-PSDB; AAU12246.
 XX
 XX Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 PT lung, breast, prostate, cervical
 XX
 PS Claim 3; Fig 149; 813pp; English.
 XX

CC AAS21244-AAS21518 encode for novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.
 CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 XX
 XX Sequence 804 BP; 199 A; 263 C; 176 G; 166 T; 0 other;
 SQ

Alignment Scores:
 Pred. No.: 5,86e-38 Length: 804
 Score: 442.00 Matches: 81
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 22 Gaps: 0

US-09-724-000A-5 (1-81) x AAS21318 (1-804)

Qy 1 MetArgLeuLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20
 |||||
 Db 42 ATGAGGCTTCTAGTCTCTTCAGCGCTGCTGTATCTCTGCTCTCTCTCTCTCTCTCTCTC 101
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Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40
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 Db 102 TCCACAGAGGGAAGAGGCGTCTCTGCCAGCGCTGTGTGTCAGGAGGAGAACCGAGCTCTGC 161
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Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisHisValArgLeuCys 60
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 Db 162 TGCACCGAGTCCCTAGCCCCCACTCAACAAACCTGAAGGACATCATGTGAGGCTCTGT 221
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Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValValProGlyAlaLeuProGln 80
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 Db 222 AAACATGCAAGCTTGAGCCAGAGCCCCCTTTGGGTGGTGGCTGGGGCACTCCACAG 281
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Qy 81 Val 81
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 Db 282 GTG 284

RESULT 4
 AAD27025
 ID AAD27025 standard; DNA; 806 BP.
 XX
 AC AAD27025;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Human Secreted epithelial colon stromal-1 (Secs-1) DNA.
 XX
 KW Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
 KW haematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
 KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
 KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
 KW anorectic; immunomodulator; antipsoriatic; vulnary; antiinfertility;
 KW gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
 KW human; ds.
 XX
 OS Homo sapiens.
 XX

Key	Location/Qualifiers
CDS	29..274
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	/product= "Human Secs-1 protein"
sig_peptide	29..100
	/*tag= b
mat_peptide	101..271
	/*tag= c
	/product= "Mature human Secs-1 protein"

WO200198497-A1.

27-DEC-2001.

28-NOV-2000: 2000WO-IJS32479.

21-JUN-2000: 2000IS-0599087

21-JUN-2000; 2000US-0353087;
28-NOV-2000; 2000US-0724000.

(AMGE-) AMGEN INC.

Polymerino A.7 Imerby P.

WPT: 3003-133391/16

WEI; 2002=122281/
P-PSDB: AAE16481

Secreted epithelial colon stromal-1 polypeptides and nucleic acids, useful for diagnosing, treating and preventing hematopoietic disorder, osteoporosis, Paget's disease, cancer, diabetes -

Claim 1; Fig 2; 134pp; English.

The present invention relates to an isolated murine or human secreted epithelial colon sromal-1 (Secs-1) polypeptide, its allelic or splice variant, orthologue, fragment or mutant. Secs-1 gene is used in gene therapy and cell therapy. Secs-1 is useful for identifying a compound which binds to a Secs-1 polypeptide. Secs-1 is useful for treating, preventing or ameliorating a disease condition such as haematopoietic disorder, osteoporosis, osteopenia, osteogenesis imperfecta, Paget's disease, periodontal disease, hypercalcaemia, acute promyelonephritis, chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1 is also useful for diagnosing a pathological condition which involves determining the presence or amount of Secs-1 or polypeptide encoded by Secs-1 DNA in a sample; and diagnosing a pathological condition, or susceptibility to pathological condition based on the presence or amount of expression of the polypeptide. The present sequence is human Secs-1 DNA.

Sequence 806 BP: 207 A: 257 C: 179 G: 163 T: 0 other:

Alignment Scores:	5.88e-38	806
. No.:		
e:	442.00	81
Percent Similarity:	100.00%	Conservative: 0
Local Similarity:	100.00%	Mismatches: 0
y Match:	100.00%	Indels: 0
	24	Gaps: 0

9-724-000A-5 (1-81) x AAD27025 (1-806)

1 Met Arqf.euLeuValLeuSerSerLeuLeuCysT]aLeuLeuLeuCysPheSerT]ePhe 30

29 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2

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Db	209	AAACCATGCAAGCTTGAGCCAGAGCCCCGCTTTGGTGGTGCTGGGCACTCCACAG	268
Qy	81	Val 81	
Db	269	GTG 271	
RESULT 5			
AAF97898.			
ID	AAF97898	standard; cDNA; 908 BP.	
XX	XX	AAF97898;	
XX	XX		
DT	01-JUN-2001	(first entry)	
XX	XX		
DE	Human secreted protein cDNA, SEQ ID NO: 25.		
XX	XX		
KW	Human; secreted protein; immunomodulatory; antisclerotic;		
KW	dermatological; antiinflammatory; anti-HIV; cytostatic; cardiant;		
KW	vascular; anti-angiogenic; ophthalmological; neuroprotectant;		
KW	neotropic; anticonvulsant; antialzheimers; antiparkinsonian;		
KW	antimicrobial; vulneryary; vaccine; gene therapy; cancer;		
KW	protein coordinate data; infection; ss.		

XX
pg claim 1. Page 730. English

The present sequence encodes one of 32 novel human secreted polypeptides
 The nucleic acid molecules and polypeptides they encode may be used in
 the prevention, diagnosis and treatment of diseases such as
 immune disorders (e.g. multiple sclerosis, systemic lupus erythematosus
 and human immuno-deficiency virus (Hiv) infections), hyperproliferative
 disorders (e.g. cancers and Gaucher's disease), cardiovascular diseases
 (e.g. Scimitar syndrome, Chaga's cardiomyopathy and coronary
 arteriosclerosis), angiogenic disorders (e.g. corneal graft
 neovascularisation and diabetic retinopathy), neurological disorders
 (e.g. Huntington's chorea, Alzheimer's disease and Parkinson's disease),
 infectious diseases and/or for promoting wound healing, regeneration
 and/or chemotaxis. The nucleic acid molecules may be used to produce the
 secreted polypeptides. They may also be used as DNA probes in diagnostic
 assays to detect and quantitate the presence of similar nucleic acid
 sequences in samples. The polypeptides may be used as antigens in the
 production of antibodies and in assays to identify modulators of
 their expression and activity.

Sequence 908 BP: 242 A: 290 C: 197 G: 175 T: 4 other: XX

Alignment Scores:		
Pred. No.:	6.85e-38	Length: 908
Score:	442.00	Matches: 81
Percent Similarity:	100.00%	Conservative: 0
Best Local Similarity:	100.00%	Mismatches: 0

DR WPI; 2000-482912/42.
 XX New isolated polynucleotide useful for diagnosis and/or treatment of
 PT colon cancer and autoimmune disease -
 XX
 PS Claim 3; Page 34; 41pp; English.
 XX
 CC This sequence represents human CASB611 cDNA. This gene exhibits
 CC colon-specific expression and is highly expressed in the rectum.
 CC The invention relates to human CASB cDNA sequences CASB611, CASB500,
 CC CASB501, CASB502, CASB505 and CASB507 (AAAT72224-A72229, respectively)
 CC and also to human CASB partial cDNA sequences (AAAT72230-A72235) derived
 CC from expressed sequence tags (ESTs). Expression of the human CASB genes
 CC (with the exception of CASB611) is associated with colon tumours, and
 CC the encoded proteins (sequences not given in the specification)
 CC represent colon tumour-associated antigens. The cDNA sequences may be
 CC used in diagnosing the presence or a susceptibility to a disease related
 CC to the presence, expression or activity of CASB genes. Such diseases
 CC include autoimmune diseases and especially colon cancer. The nucleic
 CC acid sequences may also be used in genetic vaccines for the prophylaxis
 CC or therapeutic treatment of colon cancer and autoimmune diseases.
 XX
 SQ Sequence 801 BP; 165 A; 181 C; 255 G; 200 T; 0 other;

Alignment Scores:
 Pred. No.: 1.79e-33 Length: 801
 Score: 400.00 Matches: 78
 Percent Similarity: 96.34% Conservative: 1
 Best Local Similarity: 95.12% Mismatches: 2
 Query Match: 90.50% Indels: 2
 DB: 21 Gaps: 0

US-09-724-000A-5 (1-81) x AAA72224 (1-801)

Qy 1 MetArgLeuValLeuSerSerLeuLeuCysLeuLeuLeuLeuCysPheSerIlePhe 20
 Db 769 ATGAGCTTCTAGTCTTCAGGCTGCTCTGTATCTCTGCTTCTCTCATCTTC 710
 Qy 21 SerThrGluGlyLeuArgArgProAlaLys-AlaTrpSerGlyArgThrArgLeuCy 40
 Db 709 TCCACAGAGGGAGAGAGCGCTCTGCCAACCGCGCTGTGTCAGGAGGAGAACCGAGCTCTG 650
 Qy 40 sCysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCy 60
 Db 649 CTGCCACCGAGTCCCTAGCCCCCACTCAACAACTGAAGAGACATCATGTGAGGCTCTG 590
 Qy 60 sLysProCysLysLeuGluProGluProArgLeuTrpValValProGlyAlaLeuProGl 80
 Db 589 TAAACCATGCAAGCTTGAGCCAGAGCCCCCGCTTTGGTGTGCTGGGGA-GTCCACACA 531

Qy 80 nVal 81
 Db 530 GGTG 527

RESULT 8

AAD27024

ID AAD27024 standard; DNA; 744 BP.

XX AAD27024;

AC AAD27024;

XX 09-APR-2002 (first entry)

XX Mouse Secreted epithelial colon stromal-1 (Secs-1) gene.

XX Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
 KW haematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
 KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
 KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
 KW anorectic; immunomodulator; antipsoriatic; vulnery; antiinfertility;
 KW gynaecological; antitumor; antiinflammatory; cancer; cell therapy;
 KW mouse; ds.
 XX Mus musculus.

XX Key Location/Qualifiers
 FH 38..274
 FT /tag= a
 FT /product= "Mouse Secs-1protein"
 FT 38..109
 FT sig_peptide
 FT /tag= b
 FT 110..271
 FT mat_peptide
 FT /tag= c
 FT /product= "Mature mouse Secs-1 protein"

XX WO200198497-A1.

XX 27-DEC-2001.

XX 28-NOV-2000; 2000WO-US32479.

XX 21-JUN-2000; 2000US-0599087.

XX 28-NOV-2000; 2000US-0724000.

XX (AMGE-) AMGEN INC.

XX Polverino AJ, Luethy R;

XX WPI; 2002-122281/16.

XX P-PSDB; AAE16479.

XX Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
 PT useful for diagnosing, treating and preventing hematopoietic disorder,
 PT osteoporosis, Paget's disease, cancer, diabetes -
 XX

XX Claim 1; Fig 1; 134pp; English.

XX The present invention relates to an isolated murine or human secreted
 CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
 CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
 CC therapy and cell therapy. Secs-1 is useful for identifying a compound
 CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
 CC preventing or ameliorating a disease condition such as haematopoietic
 CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
 CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
 CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
 CC is also useful for diagnosing a pathological condition which involves
 CC determining the presence or amount of Secs-1 or polypeptide encoded by
 CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
 CC susceptibility to pathological condition based on the presence or amount
 CC of expression of the polypeptide. The present sequence is mouse Secs-1
 CC gene.

XX Sequence 744 BP; 209 A; 222 C; 155 G; 158 T; 0 other;

XX Alignment Scores:

Pred. No.: 3.37e-15 Length: 744
 Score: 228.50 Matches: 45
 Percent Similarity: 67.90% Conservative: 10
 Best Local Similarity: 55.56% Mismatches: 23
 Query Match: 51.70% Indels: 3
 DB: 24 Gaps: 1

US-09-724-000A-5 (1-81) x AAD27024 (1-744)

Qy 1 MetArgLeuValLeuSerSerLeuLeuCysLeuLeuLeuLeuCysPheSerIlePhe 20

Db 38 ATGAGCTTCTAGGCTTTCGGTCTGCTCTGATGCTGCTCTCTCTCTCTCTCTCTCTTC 97

Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40

Db 98 TCCTCAGAGGGAGAGACATCTCTCCAGTCTCTTGAACCTCAGCGC-----TGC 148

Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisHisValArgLeuCys 60

Db 149 TGTACCTATCTCTCTAGATCCAAAGCTGACAACTGGGAAGGAACCAACACAGCGCTTCG 208

PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218230.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226688.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0232198.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.

PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-024617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 17-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 06-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-465567/50.
XX P-PSDB; AAU22689.
XX
XX Isolated polypeptide for treating, preventing and/ or prognosing
XX disorders related to the colon including colon cancers and also for
XX testing and detection e.g. diagnosis -
XX
XX Claim 4; SEQ ID No 232; 562pp; English.
XX
XX The present invention relates to the isolation of novel human colon
XX associated polypeptides (AAU22468-AAU22701), and the cDNA and genomic
XX

sequences encoding for them. The sequences of the invention are useful in the diagnosis, treatment, prevention and/or prognosis of disorders of the colon including colon cancer, congenital abnormalities (e.g. atresia and stenosis), bacterial and viral infections, inflammatory bowel disease (IBD), neoplastic cell disorders (e.g. polyps and adenomas, intestinal inflammatory disorders, colitis, colonic inflammation, diarrhoea and dysentery, malabsorption syndromes (e.g. lactose intolerance), intestinal obstruction and sigmoid diseases. The polynucleotide sequences of the invention can also be used in gene therapy. AAS39348-AAS39581 represent cDNA sequences encoding for the novel human colon associated polypeptides of the invention.

CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 487 BP; 135 A; 156 C; 100 G; 95 T; 1 other;

Alignment Scores:

Pred. No.:	0.741	Length:	487
Score:	92.00	Matches:	16
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	20.81%	Indels:	0
DB:	22	Gaps:	0

US-09-724-000A-5 (1-81) x AAS39569 (1-487)

Oy 38 ArgLeuCySvHisArgValProSerProAsnSerThrAsnLeuLys 53

Db 3 AGGCTCTGCTGCCACCGAGTCCCTAGCCCACTCAACAACTGAAA 50

RESULT 11

AAK88908

ID AAK88908 standard; cDNA; 487 BP.

XX AC AAK88908;

XX DT 05-NOV-2001 (first entry)

XX DE Human digestive system antigen coding sequence SEQ ID NO: 1224.

KW Human; digestive system antigen; gene therapy; cancer; appendicitis; ulcerative colitis; infection; Hirschsprung's disease; chronic colitis; digestive system disorder; Meckel's diverticulum; ss.

XX OS Homo sapiens.

XX PN WO200155314-A2.

XX PD 02-AUG-2001.

XX PF 17-JAN-2001; 2001WO-US01324.

XX PR 31-JAN-2000; 2000US-0179065.

PR 04-FEB-2000; 2000US-0180628.

PR 24-FEB-2000; 2000US-0184664.

PR 02-MAR-2000; 2000US-0186350.

PR 16-MAR-2000; 2000US-0189874.

PR 17-MAR-2000; 2000US-0190076.

PR 18-APR-2000; 2000US-0198123.

PR 19-MAY-2000; 2000US-0205515.

PR 07-JUN-2000; 2000US-0209467.

PR 28-JUN-2000; 2000US-0214886.

PR 30-JUN-2000; 2000US-0215135.

PR 07-JUL-2000; 2000US-0216647.

PR 07-JUL-2000; 2000US-0216880.

PR 11-JUL-2000; 2000US-0217487.

PR 11-JUL-2000; 2000US-0217496.

PR 14-JUL-2000; 2000US-0218290.

PR 26-JUL-2000; 2000US-0220963.

PR 26-JUL-2000; 2000US-0220964.

PR 14-AUG-2000; 2000US-0224518.

PR 14-AUG-2000; 2000US-0224519.

PR 14-AUG-2000; 2000US-0225213.

PR 14-AUG-2000; 2000US-0225214.

PR 14-AUG-2000; 2000US-0225266.

PR 14-AUG-2000; 2000US-0225267.

PR 14-AUG-2000; 2000US-0225268.

PR 14-AUG-2000; 2000US-0225270.

PR 14-AUG-2000; 2000US-0225447.

PR 14-AUG-2000; 2000US-0225757.

PR 14-AUG-2000; 2000US-0225758.

PR 14-AUG-2000; 2000US-0225759.

PR 18-AUG-2000; 2000US-0226279.

PR 22-AUG-2000; 2000US-0226681.

PR 22-AUG-2000; 2000US-0226868.

PR 22-AUG-2000; 2000US-0227182.

PR 23-AUG-2000; 2000US-0227009.

PR 30-AUG-2000; 2000US-0228924.

PR 01-SEP-2000; 2000US-0229287.

PR 01-SEP-2000; 2000US-0229343.

PR 01-SEP-2000; 2000US-0229344.

PR 01-SEP-2000; 2000US-0229345.

PR 05-SEP-2000; 2000US-0229509.

PR 05-SEP-2000; 2000US-0229513.

PR 06-SEP-2000; 2000US-0230437.

PR 06-SEP-2000; 2000US-0230438.

PR 08-SEP-2000; 2000US-0231242.

PR 08-SEP-2000; 2000US-0231243.

PR 08-SEP-2000; 2000US-0231244.

PR 08-SEP-2000; 2000US-0231413.

PR 08-SEP-2000; 2000US-0231414.

PR 08-SEP-2000; 2000US-0232080.

PR 08-SEP-2000; 2000US-0232081.

PR 12-SEP-2000; 2000US-0231968.

PR 14-SEP-2000; 2000US-0232397.

PR 14-SEP-2000; 2000US-0232398.

PR 14-SEP-2000; 2000US-0232399.

PR 14-SEP-2000; 2000US-0232400.

PR 14-SEP-2000; 2000US-0232401.

PR 14-SEP-2000; 2000US-0233063.

PR 14-SEP-2000; 2000US-0233064.

PR 14-SEP-2000; 2000US-0233065.

PR 21-SEP-2000; 2000US-0234223.

PR 21-SEP-2000; 2000US-0234274.

PR 25-SEP-2000; 2000US-0234997.

PR 25-SEP-2000; 2000US-0234998.

PR 26-SEP-2000; 2000US-0235484.

PR 27-SEP-2000; 2000US-0235834.

PR 27-SEP-2000; 2000US-0235836.

PR 29-SEP-2000; 2000US-0236327.

PR 29-SEP-2000; 2000US-0236367.

PR 29-SEP-2000; 2000US-0236368.

PR 29-SEP-2000; 2000US-0236369.

PR 29-SEP-2000; 2000US-0236370.

PR 02-OCT-2000; 2000US-0236802.

PR 02-OCT-2000; 2000US-0237037.

PR 02-OCT-2000; 2000US-0237038.

PR 02-OCT-2000; 2000US-0237039.

PR 02-OCT-2000; 2000US-0237040.

PR 13-OCT-2000; 2000US-0239335.

PR 13-OCT-2000; 2000US-0239337.

PR 20-OCT-2000; 2000US-0240960.

PR 20-OCT-2000; 2000US-0241221.

PR 20-OCT-2000; 2000US-0241785.

PR 20-OCT-2000; 2000US-0241786.

PR 20-OCT-2000; 2000US-0241787.

PR 20-OCT-2000; 2000US-0241808.

PR 20-OCT-2000; 2000US-0241809.

PR 20-OCT-2000; 2000US-0241826.

PR 01-NOV-2000; 2000US-0244617.

PR 08-NOV-2000; 2000US-0246474.

PR 08-NOV-2000; 2000US-0246475.

PR 08-NOV-2000; 2000US-0246476.

PR 08-NOV-2000; 2000US-0246477.

PR 08-NOV-2000; 2000US-0246478.

RESULT 13
AAQ57015
ID AAQ57015 standard; DNA; 2167 BP.
XX
AC AAQ57015;
XX
DT 31-AUG-1994 (first entry)
XX
DE PKC gamma.
XX
KW 110 kD catalytic subunit; phosphatidyl inositol 3-kinase;
KW transformation; Schizosaccharomyces pombe; nmt promoter; thiamine;
KW Ptdins 3-kinase; assay; detection; cell growth; regulation; cancer;
KW blood vessel plaques; ss.
XX
OS Bos taurus.
XX
XX WO9403609-A.
XX
XX 17-FEB-1994.
XX
XX 05-AUG-1993; 93WO-GB01651.
XX
XX 05-AUG-1992; 92GB-0016654.
XX
XX (IMCR) IMPERIAL CANCER RES TECHNOLOGY.
XX
XX Goode NT, Nurse PM, Parker PUJ, Waterfield MD;
XX
XX WPI; 1994-065697/08.
XX
XX Eukaryotic cells transformed with mammalian phospholipid or
XX protein kinase DNA - useful in assays for compounds involved in
XX cell growth regulation and for treating cancers
XX
XX Disclosure; Page 41-42; 71pp; English.
XX
XX The sequences given in AAQ57014-17 encode protein kinase C (PKC)
XX epsilon, gamma, delta and nu respectively. These sequences were
XX transformed into Schizosaccharomyces pombe cells under the regulatory
XX control of the nmt promoter in an embodiment of the invention. In the
XX presence of thiamine the promoter is inactive and the cells carrying
XX the PKC plasmids grow as the parental strain. In the absence
XX of thiamine the nmt promoter functions and the PKC is induced. PKC
XX activity is substantially increased under these conditions. Cells
XX containing constructs such as this, are useful in assays for detecting
XX compounds involved in cell growth regulation. It is also used as the
XX basis for detecting compounds for treating cancers and the formation
XX of blood vessel plaques.
XX
SQ Sequence 2167 BP; 428 A; 700 C; 611 G; 428 T; 0 other;

Alignment Scores:
Pred. No.: 19.5 Length: 2167
Score: 86.50 Matches: 26
Percent Similarity: 39.76% Conservative: 7
Best Local Similarity: 31.33% Mismatches: 19
Query Match: 15 Indels: 31
DB: 15 Gaps: 4

US-09-724-000A-5 (1-81) x AAQ57015 (1-2167)

Qy 18 SerilePheSerThrGluGlyValArg-----ProAlaLysAlaTrp----- 32
Db 1882 TCGAAGATTCTTCACTCGGCGCGCGCTGACACCCCTGACCGCTGTTCTGG 1941
Qy 33 -----SerGlyArgAlaThrArgLeuCysCysHis 42
Db 1942 CCAGCATCGACCGCTGAGTTCAGGCGCTTCACTATGTCAACCCGATTCTGTGACC 2001
Qy 43 ArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCysLysPro 62
Db 2002 CGGATGCGCGCAGCCATCAGCCAA-----CGCTGTGCGCAGTCA 2043

Qy 63 Cys-----LysLeuGluProGluProArgLeuTrp 72
Db 2044 TGTAAATCCACCTGCGCCACAGGCGTCCCGGCTCTCTCCGCGCGCTTTGG 2103
Qy 73 ValValPro 75
Db 2104 CCTCGGCT 2112

RESULT 14
AAC98948/c
ID AAC98948 standard; cDNA; 1622 BP.
XX
AC AAC98948;
XX
DT 09-MAR-2001 (first entry)
XX
DE Human pancreatic cancer antigen nucleotide sequence SEQ ID NO:176.
XX
KW Human; pancreas; pancreatic cancer; pancreatic cancer antigen;
KW detection; diagnosis; identification; cytostatic; neuroprotective;
KW neotropic; immunomodulatory; relaxant; contraceptive; gynaecological;
KW antiinflammatory; cardiant; gene therapy; chromosome mapping;
KW linkage analysis; tissue identification; tissue typing; forensic;
KW neural; immune system; muscular; reproductive; gastrointestinal;
KW pulmonary; cardiovascular; renal; proliferative; ss.
XX
OS Homo sapiens.
XX
XX WO200055320-A1.
XX
XX 21-SEP-2000.
XX
XX 08-MAR-2000; 2000WO-US05989.
XX
XX 12-MAR-1999; 99US-0124270.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM;
XX
XX WPI; 2000-579444/54.
XX
XX P-PSDB; AAB54183.
XX
XX New nucleic acid that is a pancreatic cancer antigen for preventing,
XX treating, or ameliorating a medical condition, particular pancreatic
XX cancer, or for use in assays for diagnosing a pathological condition -
XX
XX Claim 1; Page 629; 1379pp; English.
XX
XX AAC98773 to AAC99231 encode the human pancreatic cancer associated
XX proteins, called pancreatic cancer antigens, given in AAB54008 to
XX AAB54466. The human pancreatic cancer antigens have cytostatic,
XX neuroprotective, neotropic, immunomodulatory, relaxant, contraceptive,
XX gynaecological, cardiant and antiinflammatory activities, and can be used
XX in gene therapy. The polynucleotide and proteins can be used for
XX preventing, treating, or ameliorating a medical condition or in assays
XX for diagnosing a pathological condition or a susceptibility to one in a
XX subject. Binding partners to the proteins and the activity of the
XX proteins can be identified. The pancreatic cancer antigens can be used to
XX detect, treat or prevent pancreatic disorders, especially cancer.
XX Agonists and antagonists to the antigens can be screened for. The
XX pancreatic cancer antigen polynucleotides can be used to design nucleic
XX acid hybridisation probes that can be used in chromosome mapping, linkage
XX analysis, tissue identification and/or typing and a variety of forensic
XX and diagnostic methods. The proteins can be used to generate antibodies
XX which are used to purify, detect and target the polypeptides, including
XX both in vivo and in vitro diagnostic and therapeutic methods. The
XX proteins can be used to treat or prevent neural, immune system, muscular,
XX reproductive, gastrointestinal, pulmonary, cardiovascular, renal or
XX proliferative disorders. AAC99232 to AAC99240 and AAB54467 represent
XX sequences used in the exemplification of the present invention.
XX

SQ Sequence 1622 BP; 328 A; 486 C; 515 G; 273 T; 20 other;

Alignment Scores:

Pred. No.: 19.4 Length: 1622
Score: 85.00 Matches: 26
Percent Similarity: 47.76% Conservative: 6
Best Local Similarity: 38.81% Mismatches: 17
Query Match: 19.23% Indels: 18
DB: 21 Gaps: 4

US-09-724-000A-5 (1-81) x AAC98948 (1-1622)

Qy 22 ThrGluGlyLysArgArgProAlaLysAla-----TrpSerGlyArgArgThrArgLeu 39
Db 1022 ACTGGGGTCTGCGCCCGAGGCGCGTACTTTGGCTGGTCGGAGAAGGAGCGTT 963
Qy 40 CysCysHisArgVal---ProSerProAsnSerThrAsnLeuLysGlyHisValArg 58
Db 962 TGTGCACTGCAGTTGGCGCCCACTGCTGGATCATTA----- 921
Qy 59 LeuCysLysProCysLysLeuGluPro-----GluProArgLeuTrpValVal 74
Db 920 -----GTTCTTGAGCGGCTGTTAGCTGGACACCTCGCTTCCCGGAGC 876
Qy 75 ProGlyAlaLeuProGlnVal 81
Db 875 CTGGCTGCCTGCCTCAGATC 855

RESULT 15

AAT27617/C
ID AAT27617 standard; cDNA to mRNA; 1688 BP.

XX AC AAT27617;

XX DT 06-NOV-1996 (first entry)

XX DE Steroid hormone receptor analogue ECDN small mol. variant cDNA.

XX KW Human; foetal lung; steroid hormone; receptor; analogue protein;
KW ECDN protein; cancer; screening; binding molecule; recombinant;
KW identification; anticancer drug; cancerous tissue; primer;
KW probe; antibody; immunohistochemical assay; variant;
KW small molecule; ECDNm; ds.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers
XX FT CDS 206..1300
XX FT /*tag= a

XX PN WO9609324-A1.

XX PD 28-MAR-1996.

XX PF 21-SEP-1995; 95WO-JP01909.

XX PR 21-SEP-1994; 94JP-0226270.

XX PA (EISA) EISAI CO LTD.

XX PA (GANK-) ZH GAN KENKYUKAI.

XX PA (CANC-) CANCER INST.

XX PI Nakamura Y, Saito H;

XX DR WPI; 1996-188403/19.

XX DR P-PSDB; AAR96235.

XX PT ECDN protein, a steroid hormone receptor analogue from human foetal
XX lung - is expressed in cancer cells and is useful for cancer
XX diagnosis and drug development

XX PS Claim 3; Pages 25-28; 43pp; Japanese.

XX .XX

CC The present sequence encodes the variant of the human foetal lung
CC derived steroid hormone receptor analogue protein ECDN, designated
CC ECDN small mol. (ECDNm) protein. ECDNm protein is expressed in
CC various cancer cells, therefore screening for ECDNm protein
CC binding mols., using recombinant ECDNm proteins will be useful in
CC the identification of candidate anticancer drugs. Gene expression
CC of ECDNm proteins in cancerous tissues can be studied using
CC primers and probes derived from ECDNm protein cDNA. Antibodies
CC which recognise ECDNm proteins can be used in ECDNm protein
CC immunohistochemical assays.

XX SQ Sequence 1688 BP; 347 A; 562 C; 494 G; 285 T; 0 other;

Alignment Scores:

Pred. No.: 20.4 Length: 1688
Score: 85.00 Matches: 26
Percent Similarity: 47.76% Conservative: 6
Best Local Similarity: 38.81% Mismatches: 17
Query Match: 19.23% Indels: 18
DB: 17 Gaps: 4

US-09-724-000A-5 (1-81) x AAT27617 (1-1688)

Qy 22 ThrGluGlyLysArgArgProAlaLysAla-----TrpSerGlyArgArgThrArgLeu 39
Db 692 ACTGGGGTCTGCGCCCGAGGCGCGTACTTTGGCTGGTCGGAGAAGGAGCGTT 633
Qy 40 CysCysHisArgVal---ProSerProAsnSerThrAsnLeuLysGlyHisValArg 58
Db 632 TGTGCACTGCAGTTGGCGCCCACTGCTGGATCATTA----- 591
Qy 59 LeuCysLysProCysLysLeuGluPro-----GluProArgLeuTrpValVal 74
Db 590 -----GTTCTTGAGCGGCTGTTAGCTGGACACCTCGCTTCCCGGAGC 546

Qy 75 ProGlyAlaLeuProGlnVal 81

Db 545 CTGGCTGCCTGCCTCAGATC 525

Search completed: May 17, 2003, 11:17:01

Job time : 166 secs

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GenCore version 5.1.4_p5-4578
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OM nucleic - nucleic search, using sw model

Run on: May 17, 2003, 12:22:51 ; Search time 1740 Seconds
(without alignments)
7502.047 Million cell updates/sec

Title: US-09-724-000A-4
Perfect score: 806
Sequence: 1 ggaacgagggaatactgcc.....actcaatgcagacacaaaaa 806

Scoring table: OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 16154066 seqs, 8097743376 residues

Word size : 0

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : EST.*

- 1: em_estba.*
- 2: em_esthum.*
- 3: em_estin.*
- 4: em_estmu.*
- 5: em_estov.*
- 6: em_estpl.*
- 7: em_estro.*
- 8: em_htc.*
- 9: gb_est1.*
- 10: gb_est2.*
- 11: gb_htc.*
- 12: gb_est3.*
- 13: gb_est4.*
- 14: gb_est5.*
- 15: em_estfun.*
- 16: em_estom.*
- 17: gb_gss.*
- 18: em_gss_hum.*
- 19: em_gss_inv.*
- 20: em_gss_pln.*
- 21: em_gss_vrt.*
- 22: em_gss_fun.*
- 23: em_gss_mam.*
- 24: em_gss_mus.*
- 25: em_gss_other.*
- 26: em_gss_pro.*
- 27: em_gss_rod.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	486	60.3	557	14	BQ189412	BQ189412 UI-E-EJ1-
C 2	460	57.1	460	9	A1983767	A1983767 wu20a04.x
C 3	450	55.8	453	10	AW516596	AW516596 xq01h07.x
4	429	53.2	906	12	BE899580	BE899580 601682443
C 5	410	50.9	543	10	AW970357	AW970357 EST382438
C 6	406	50.4	413	9	A1339648	A1339648 qk63a12.x

C 7	398	49.4	450	9	A1948903	A1948903 wq17c02.x
C 8	393	48.8	444	9	A1833297	A1833297 at67a07.x
C 9	380	47.1	467	9	A1304380	A1304380 qo59c12.x
C 10	379	47.0	430	9	A1283185	A1283185 qk49g09.x
C 11	377	46.8	429	9	A1813445	A1813445 wj06e01.x
C 12	371	46.0	517	10	AW854263	AW854263 RC3-CT025
C 13	369	45.8	420	9	AA938765	AA938765 on44h11.s
C 14	366	45.4	455	9	A1832391	A1832391 at68f03.x
C 15	362	44.9	467	9	A1831407	A1831407 wj64a12.x
C 16	359	44.5	405	9	A1833021	A1833021 at74c12.x
C 17	353	43.8	423	9	A1336470	A1336470 qo61d01.x
C 18	351	43.5	466	10	AW361500	AW361500 QV2-CT026
C 19	350	43.4	416	10	AW206923	AW206923 UI-H-B11-
C 20	346	42.9	431	9	A1832498	A1832498 at69e07.x
C 21	342	42.4	382	9	A1732377	A1732377 nf90e09.x
C 22	333	41.3	384	9	A1336626	A1336626 qo62d09.x
C 23	323	40.1	331	9	A1246768	A1246768 qk40f07.x
C 24	323	40.1	381	9	A1285352	A1285352 q138g09.x
C 25	321	39.8	356	10	AW351839	AW351839 RCL-CT019
C 26	320	39.7	381	9	A1732376	A1732376 nf80f04.x
C 27	313	38.8	330	10	AW351854	AW351854 RCL-CT019
C 28	308	38.2	476	10	AW134688	AW134688 UI-H-B11-
C 29	307	38.1	460	12	BF001316	BF001316 7g62b10.x
C 30	306	38.0	400	9	A1864896	A1864896 wj66d04.x
C 31	300	37.2	427	10	AW361498	AW361498 QV2-CT026
C 32	288	35.7	441	9	AA587764	AA587764 nm95f05.s
C 33	286	35.5	302	12	BF478262	BF478262 nae4a11.
C 34	281	34.9	503	9	AA422178	AA422178 zv31g07.r
C 35	277	34.4	484	10	AW970275	AW970275 EST382356
C 36	261	32.4	394	9	A1744428	A1744428 wf89b03.x
C 37	260	32.3	292	10	AW361503	AW361503 QV2-CT026
C 38	259	32.1	357	9	A1766378	A1766378 wh61c01.x
C 39	249	30.9	487	9	AA553959	AA553959 nl01d03.s
C 40	246	30.5	429	9	AA857922	AA857922 of69c03.s
C 41	230	28.5	415	10	AW361502	AW361502 QV2-CT026
C 42	228	28.3	381	9	AA534511	AA534511 nf80f04.s
C 43	227	28.2	278	9	AA535314	AA535314 nf90e09.s
C 44	218	27.0	385	10	AW591238	AW591238 xq14a06.x
C 45	196	24.3	366	9	AA422086	AA422086 zv31g06.s

ALIGNMENTS

RESULT 1
BQ189412 557 bp mRNA linear EST 30-APR-2002
LOCUS BQ189412 UI-E-EJ1-ajv-h-16-0-UI.r1 UI-E-EJ1 Homo sapiens cDNA clone
DEFINITION UI-E-EJ1-ajv-h-16-0-UI.r1 UI-E-EJ1 Homo sapiens cDNA clone
ACCESSION BQ189412
VERSION BQ189412.1 GI:20364963
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 557)
AUTHORS Ronaldo M.F., Lennon,G. and Soares M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene discovery

JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477
COMMENT Contact: Soares, MB
Program for Rat Gene Discovery and Mapping
University of Iowa
451 Eckstein Medical Research Building Iowa City, IA 52242, USA
Tel: 319 335 8250
Fax: 319 335 9565
Email: msoares@blue.weeg.uiowa.edu
Tissue Procurement: Dr. Gregg Hageman
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa


```

Qy 631 CCAAGACTGCAGAGTCTCTCCATCTTCCAGTCCATTGAGCTCTCTGCGATTTAACTACC 690
Db 160 CCAAGACTGCAGAGTCTCTCCATCTTCCAGTCCATTGAGCTCTCTGCGATTTAACTACC 101
Qy 691 AGCATCCAGTGTCCCAAGGAATCCCTTCCAGCTCTCTGAGCTCTGACATGAGTCTGCTGGAAG 750
Db 100 AGCATCCAGTGTCCCAAGGAATCCCTTCCAGCTCTCTGAGCTCTGACATGAGTCTGCTGGAAG 41
Qy 751 AGCATCCAAACAAACAGTAATAATAATAATAATAAACTC 790
Db 40 AGCATCCAAACAAACAGTAATAATAATAATAATAAACTC 1

RESULT 3
AW516596/c
LOCUS      AW516596      453 bp      mRNA      linear      EST 03-MAR-2000
DEFINITION x01h07.x1 Soares_NHCEc_cervical_tumor Homo sapiens CDNA clone
IMAGE:2748637 3', mRNA sequence.
ACCESSION AW516596
VERSION    AW516596.1 GI:7154678
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 453)
AUTHORS    NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE      National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
JOURNAL    Unpublished (1997)
COMMENT    Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            This clone is available royalty-free through LLNL; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Seq primer: -40UP from Gibco
            High quality sequence stop: 451.
FEATURES   Location/Qualifiers
            source          1..453
                        /organism="Homo sapiens"
                        /db_xref="taxon:9606"
                        /clone="IMAGE:2748637"
                        /clone_lib="Soares_NHCEc_cervical_tumor"
                        /tissue_type="tumor"
                        /lab_host="DH10B (phage-resistant)"
                        /note="Organ: cervix; Vector: pT7T3D-Pac (Pharmacia) with
                        a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
                        strand cDNA was primed with a Not I - oligo(dT) primer [5'-
                        TGTTACCAATCTGAAGTGGAGCGCGCCGAGTTTTTTTTTTTTTTTTTTTTTTT
                        T 3']; double-stranded cDNA was ligated to Eco RI
                        adaptors (Pharmacia), digested with Not I and cloned into
                        the Not I and Eco RI sites of the modified pT7T3 vector.
                        Library is normalized; constructed by Bento Soares and
                        M.Fatima Bonaldo."
BASE COUNT 95 a      92 c      142 g      124 t
ORIGIN
            Query Match          55.8%; Score 450; DB 10; Length 453;
            Best Local Similarity 100.0%; Pred. No. 3.5e-214;
            Matches 450; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 343 CTGCTCCCCCTTTACAGCTTCACAGCAGTGCAGTCCATGTTGGAGGGCTTCATCTCGGG 402
Db 453 CTGCTCCCCCTTTACAGCTTCACAGCAGTGCAGTCCATGTTGGAGGGCTTCATCTCGGG 394
Qy 403 CTGCAAGACCTCGGAAAGTTCAGAACTCCACGTCCTCTGTCTCAATTGTCCTCAAC 462
Db 393 CTGCAAGACCTCGGAAAGTTCAGAACTCCACGTCCTCTGTCTCAATTGTCCTCAAC 334
Qy 463 TTTTCAGAGCTATCATGAGCCACCTCACCCACAGGGCTCAGTCGCCACCATGTGGGCC 522
Db 333 TTTTCAGAGCTATCATGAGCCACCTCACCCACAGGGCTCAGTCGCCACCATGTGGGCC 274

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Qy 523 TCTCAGTGCMAAACCCAGCAGCATTTCCACATGACCCGGTCAACAGTACAAATCCAGAGAC 582
Db 273 TCTCAGTGCMAAACCCAGCAGCATTTCCACATGACCCGGTCAACAGTACAAATCCAGAGAC 214
Qy 583 CATCAATCCTGCTAGAGTGCAGGGTGGCAAGCACCAGGGTGGCTGACCAAGACTGCAG 642
Db 213 CATCAATCCTGCTAGAGTGCAGGGTGGCAAGCACCAGGGTGGCTGACCAAGACTGCAG 154
Qy 643 AGTCTCCTCCATCTTCCAGGTCCATTGAGCTCTCTGCGATTTAACTACCAGCATCCAGTGG 702
Db 153 AGTCTCCTCCATCTTCCAGGTCCATTGAGCTCTCTGCGATTTAACTACCAGCATCCAGTGG 94
Qy 703 TCCCAAGGAATCCCTTCCAGCTCTCTGAGCTCTGACATGAGTCTGCGAAAGAGCATCCAAACA 762
Db 93 TCCCAAGGAATCCCTTCCAGCTCTCTGAGCTCTGACATGAGTCTGCGAAAGAGCATCCAAACA 34
Qy 763 AACAAAGTAATAATAATAATAATAATAAACTCAA 792
Db 33 AACAAAGTAATAATAATAATAATAATAAACTCAA 4

RESULT 4
BE899580
LOCUS      BE899580      906 bp      mRNA      linear      EST 29-SEP-2000
DEFINITION 50162443F1 NIH_MGC_9 Homo sapiens CDNA clone IMAGE:3952523 5',
            mRNA sequence.
ACCESSION BE899580
VERSION    BE899580.1 GI:10367234
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 906)
AUTHORS    NIH-MGC http://mgc.nci.nih.gov/.
TITLE      National Institutes of Health, Mammalian Gene Collection (MGC)
            Unpublished (1999)
JOURNAL
COMMENT    Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: DCTD/DTF
            CDNA Library Preparation: Ling Hong/Rubin Laboratory
            CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
            Plate: LLCMB22 row: f column: 12
            High quality sequence start: 23
            High quality sequence stop: 775.
FEATURES   Location/Qualifiers
            source          1..906
                        /organism="Homo sapiens"
                        /db_xref="taxon:9606"
                        /clone="IMAGE:3952523"
                        /clone_lib="NIH_MGC_9"
                        /tissue_type="adenocarcinoma cell line"
                        /lab_host="DH10B (phage-resistant)"
                        /note="Organ: ovary; Vector: pOT87; Site_1: XhoI; Site_2:
                        EcoRI; CDNA made by oligo-dT priming. Directionally
                        cloned into EcoRI/XhoI sites using the following 5'
                        adaptor: GGCACGAG(G). Size-selected >500bp for average
                        insert size 1.8kb. Library constructed by Ling Hong in
                        the laboratory of Gerald M. Rubin (University of
                        California, Berkeley) using ZAP-cDNA synthesis kit
                        (Stratagene) and Superscript II RT (Life Technologies)."
BASE COUNT 219 a      282 c      219 g      186 t
ORIGIN
            Query Match          53.2%; Score 429; DB 12; Length 906;
            Best Local Similarity 100.0%; Pred. No. 1.3e-203;
            Matches 429; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 57 TCTGTATCTCTGCTCTCTGCTTCTCCATCTTCTCCAGAAAGGAGCGTCTCTGCCA 116

```


ORIGIN

Query Match 50.4%; Score 406; DB 9; Length 413;
Best Local Similarity 100.0%; Pred. No. 3.7e-192;
Matches 406; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 387 AGGGCTTCATCTCGGCTGCAAGGACCTGGGAAAGTTCCAGAACTCCACGTCCTTGCT 446
Db |||||
Qy 413 AGGGCTTCATCTCGGCTGCAAGGACCTGGGAAAGTTCCAGAACTCCACGTCCTTGCT 354
Db |||||

Qy 447 CAATTGTGCATCAATTTTCAGAGTATCATGAGCCCACTCACCACCGAGGCGCTCAGT 506
Db |||||

Qy 507 CGCCACCATGTGGGCTCTCCAGTGCAACACCGAGCATTCACCATGACCGGTGACAG 566
Db |||||

Qy 567 CTACAAATCCAGAGACCATCAATCTCTGTAGAGTGAGGTGGCAAGCACCCAGGGTGG 626
Db |||||

Qy 627 CTGACCAAGACTGACAGTCTCTCCATCTTCAGTTCATTCAGCTCCTGSCATTTAAC 686
Db |||||

Qy 687 TACCAGCATCCAGTGGTCCCCAAGGAATCCCTTCTAGCTCCTGACATGAGTCTGCTGG 746
Db |||||

Qy 747 AAAGAGCATCCAAACAACAAGTAATAATAATAATAATACTCAA 792
Db |||||

RESULT 7
LOCUS AI948903 450 bp mRNA linear EST 08-MAR-2000
DEFINITION wq17c02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2471522 3',
mRNA sequence.
ACCESSION AI948903
VERSION AI948903.1 GI:5741213
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 450)
NCI-CCGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CCGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.lnl.gov/bbrp/image/image.html
Insert Length: 607 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 438.
Location/Qualifiers
1. 450
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2471522"
/clone_lib="NCI_CGAP_Kid12"
/tissue_type="2 pooled tumors (clear cell type)"
/lab_host="DH10B"

FEATURES
source

/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with
a modified polylinker; Site 1: Not I; Site 2: Eco RI;
Plasmid DNA from the normalized library NCI_CGAP Kid5 was
prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(Clones IDs 132912-1325831, 1471368-1472903 and
1492104-1493255). Subtraction by Bento Soares and M.
Fatima Bonaldo."

BASE COUNT 94 a 92 c 141 g 123 t
ORIGIN

Query Match 49.4%; Score 398; DB 9; Length 450;
Best Local Similarity 99.8%; Pred. No. 3.8e-188;
Matches 448; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 344 TGTCTCCCTTTACGCTTTCACAGAGTGAGCTGCAATGTTGGAGGGCTTCATCTCGGGC 403
Db |||||

Qy 404 TGAAGGACCTGGGAAAGTTCCAGAACTCCACGTCCTTGCTCAATTGTGCCATCAACT 463
Db |||||

Qy 390 TGAAGGACCTGGGAAAGTTCCAGAACTCCACGTCCTTGCTCAATTGTGCCATCAACT 331
Db |||||

Qy 464 TTCAGAGCTATCATGAGCCAACTCACCACACAGGGCCTCAGTCGCCACCATGTGGGCT 523
Db |||||

Qy 330 TTCAGAGCTATCATGAGCCAACTCACCACACAGGGCCTCAGTCGCCACCATGTGGGCT 271
Db |||||

Qy 524 CTCAGTGCAAAACACCGAGCATTTCCACCATGACCGGTCAAGCTACAAATCCAGAGACC 583
Db |||||

Qy 270 CTCAGTGCAAAACACCGAGCATTTCCACCATGACCGGTCAAGCTACAAATCCAGAGACC 211
Db |||||

Qy 584 ATCAATCTCTGCTAGAGTGCAGGGTGGCAAGCACCCAGGGTGGTGCACCAAGACTGCAGA 643
Db |||||

Qy 210 ATCAATCTCTGCTAGAGTGCAGGGTGGCAAGCACCCAGGGTGGTGCACCAAGACTGCAGA 151
Db |||||

Qy 644 GTCTCCTCCATCTTTCAGGTCCTCAGCTTCCAGCTTCACTTAACTACCAAGCATTCAGTGGT 703
Db |||||

Qy 150 GTCTCCTCCATCTTTCAGGTCCTCAGCTTCCAGCTTCACTTAACTACCAAGCATTCAGTGGT 91
Db |||||

Qy 704 CCCAAGGAATCCCTTCTAGCCTCCTGACATGATGCTGTGGAAAGAGCATCCAAACAA 763
Db |||||

Qy 90 CCCAAGGAATCCCTTCTAGCCTCCTGACATGATGCTGTGGAAAGAGCATCCAAACAA 31
Db |||||

Qy 764 ACAAGTAATAATAATAATAATAACTCAA 792
Db |||||

Qy 30 ACAAGTAATAATAATAATAATAACTCAA 2
Db |||||

RESULT 8
LOCUS AI833297/c 444 bp mRNA linear EST 13-JUL-1999
DEFINITION at67a07.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone
IMAGE:2377044 3', mRNA sequence.
ACCESSION AI833297
VERSION AI833297.1 GI:5455277
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 444)
REFERENCE Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,
Krizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin,
J., Moore, B., Schellberg, K., Steptoe, M., Tan, F., Theising, B.,
White, Y., Wylie, T., Waterston, R. and Wilson, R.
WashU-NCI human EST Project
Unpublished (1997)
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800

Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -40UP from Gibco.
Location/Qualifiers
1. .444
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2377044"
/clone_lib="Barstead colon HPLRB7"
/sex="male"
/dev_stage="adult, age 25"
/lab_host="DH10B (phage resistant)"
/note="Organ: colon; Vector: pT73D-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoRI; Site 2: NotI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTGGAGCGCCGCTTTTTTTTTTTTTTTTTT
3']; double-stranded cDNA was ligated to Eco RI adaptors
[5' AATTCTAGTAT 3' and 5' ATTACTAGT 3'], digested
with Not I and cloned into the Not I and Eco RI sites of
the modified pT73 vector. Library constructed by Bob
Barstead."

FEATURES
source

BASE COUNT 93 a 92 c 141 g 118 t
ORIGIN
Query Match 48.8%; Score 393; DB 9; Length 444;
Best Local Similarity 99.8%; Pred. No. 1.2e-185;
Matches 443; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 347 CTCCTCCCTTTACGCTTACAGCAGTGAGCTGCAATGTTGGAGGGCTTCATCTCGGGCTGC 406
Db 444 CTCCTCCCTTTACGCTTACAGCAGTGAGCTGCAATGTTGGAGGGCTTCATCTCGGGCTGC 385
Qy 407 AAGACCTCGGAAAGTTCAGAACTCAGCTGCTTGTCTCAATTGTGCCATCAACTTTC 466
Db 384 AAGACCTCGGAAAGTTCAGAACTCAGCTGCTTGTCTCAATTGTGCCATCAACTTTC 325
Qy 467 AGAGCTATCATGAGCAACCTCACCCACAGGCGCTCAGTCGCCACCATGTGGGCTCTC 526
Db 324 AGAGCTATCATGAGCAACCTCACCCACAGGCGCTCAGTCGCCACCATGTGGGCTCTC 265
Qy 527 CAGTGCAAACCAACCGAGCATTCACCATGACCGGTTCACAGCTACAAATCCAGAGCAATC 586
Db 264 CAGTGCAAACCAACCGAGCATTCACCATGACCGGTTCACAGCTACAAATCCAGAGCAATC 205
Qy 587 AATCTGCTAGAGTCAGGGTGGCAAGCACCAGGGTGGCTGACCAAGACTGCAGAGTC 646
Db 204 AATCTGCTAGAGTCAGGGTGGCAAGCACCAGGGTGGCTGACCAAGACTGCAGAGTC 145
Qy 647 TCCTCATCTTCAGTCCATTCAGCTCCTGGCATTTTAATACCAGCATCCAGTGGTCCC 706
Db 144 TCCTCATCTTCAGTCCATTCAGCTCCTGGCATTTTAATACCAGCATCCAGTGGTCCC 85
Qy 707 CAAGGAATCCCTTCTAGCCCTCTGACATGATGCTGTGGAAAGAGCATCAAAACAACA 766
Db 84 CAAGGAATCCCTTCTAGCCCTCTGACATGATGCTGTGGAAAGAGCATCAAAACAACA 25
Qy 767 AGTAATAATAATAATAATAACTC 790
Db 24 AGTAATAATAATAATAATAACTC 1

RESULT 9
AI304380/c
LOCUS q059c12.x1 NCI_CGAP_Co8 Homo sapiens cDNA clone IMAGE:1912822 3',
DEFINITION mRNA sequence.
ACCESSION AI304380
VERSION AI304380.1 GI:3988069
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 467)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index

REFERENCE
AUTHORS
TITLEJOURNAL
COMMENT

Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert length: 604 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 438.

FEATURES
source

1. .467
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1912822"
/clone_lib="NCI_CGAP_Co8"
/tissue_type="adenocarcinoma"
/lab_host="DH10B"
/note="Organ: colon; Vector: pT73D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from
colon adenocarcinoma, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and cloned
into the Not I and Eco RI sites of the modified pT73
vector. Library is normalized. Library was constructed by
Bento Soares and M. Fatima Bonaldo."

BASE COUNT 96 a 97 c 148 g 126 t
ORIGIN

Query Match 47.1%; Score 380; DB 9; Length 467;
Best Local Similarity 99.8%; Pred. No. 4e-179;
Matches 430; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 325 GAGGTACCCAGCAGCCTCTGTCTCCCTTTTCAGCCCTTCACAGCAGTGAGCTGCAATGTT 384
Db 467 GAGGTACCCAGCAGCCTCTGTCTCCCTTTTCAGCCCTTCACAGCAGTGAGCTGCAATGTT 408
Qy 385 GGAGGGCTTCATCTCGGGCTGCAAGGACCCTGGGAAAGTTCAGAACTCCACGTCCTTGT 444
Db 407 GGAGGGCTTCATCTCGGGCTGCAAGGACCCTGGGAAAGTTCAGAACTCCACGTCCTTGT 348
Qy 445 CTCATTTGTGCCATCAACTTTCAGAGCTATCATGAGCAACCTCACCCACAGGGCTCA 504
Db 347 CTCATTTGTGCCATCAACTTTCAGAGCTATCATGAGCAACCTCACCCACAGGGCTCA 288
Qy 505 GTGCCACCATGTGGGCTCTCCAGTGCAAAACCAACGAGCATTCACCATGACCGGTAC 564
Db 287 GTGCCACCATGTGGGCTCTCCAGTGCAAAACCAACGAGCATTCACCATGACCGGTAC 228
Qy 565 AGCTACAAATCCAGAGACCATCAATCTCTGTAGAGTGCAGGGTGGCAAGCACCAGGGT 624
Db 227 AGCTACAAATCCAGAGACCATCAATCTCTGTAGAGTGCAGGGTGGCAAGCACCAGGGT 168
Qy 625 GGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGTCCATTCAGCTCCTCTGGCATTTA 684
Db 167 GGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGTCCATTCAGCTCCTCTGGCATTTA 108
Qy 685 ACTACCAAGACTGCAGTGGTCCCAAGGAATCCCTTCTAGCTCCTGACATGAGTCTGCT 744
Db 107 ACTACCAAGACTGCAGTGGTCCCAAGGAATCCCTTCTAGCTCCTGACATGAGTCTGCT 48
Qy 745 GGAAGAGCAT 755
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Db 47 GGAAGAGCAT 37
RESULT 10
A1283185/c
LOCUS
DEFINITION
Q49G09.x1 NCI_CGAP_C08 Homo sapiens cDNA clone IMAGE:1872352 3',
mRNA sequence.
ACCESSION
A1283185
VERSION
A1283185.1 GI:3921418
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 430)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
AUTHORS
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
TITLE
Tumor Gene Index
JOURNAL
Unpublished (1997)
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 933 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 403.
LOCATION/Qualifiers
1..430
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1872352"
/clone_lib="NCI_CGAP C08"
/tissue_type="adenocarcinoma"
/lab_host="DH10B"
/notes="Organ: colon; Vector: p773D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from
colon adenocarcinoma, and was then primed with a Not I -
oligo(dt) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and cloned
into the Not I and Eco RI sites of the modified p773
vector. Library is normalized. Library was constructed by
Bento Soares and M. Fatima Bonaldo."
BASE COUNT 88 a 90 c 133 g 119 t
ORIGIN
Query Match 47.0%; Score 379; DB 9; Length 430;
Best Local Similarity 99.8%; Pred. No. 1.2e-178;
Matches 429; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 361 TTCACGAGTGAGTCGAATGTTGGAGGCTTCATCTCGGCTCGAAGGACCTGGGAA 420
Db 430 TTCACGAGTGAGTCGAATGTTGGAGGCTTCATCTCGGCTCGAAGGACCTGGGAA 371
Qy 421 AGTTCAGAACTCCACGCTCTGTCTCAATTGTGCCATCAACTTTTCAGAGCTATCATGAG 480
Db 370 AGTTCAGAACTCCACGCTCTGTCTCAATTGTGCCATCAACTTTTCAGAGCTATCATGAG 311
Qy 481 CCAACCTCACCCACAGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGCACCAACACC 540
Db 310 CCAACCTCACCCACAGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGCACCAACACC 251
Qy 541 GAGCATTCACCATGACCGGTTCACAGCTACAAATCCAGAGACCATCAATCTCTGTAGAGT 600
Db 250 GAGCATTCACCATGACCGGTTCACAGCTACAAATCCAGAGACCATCAATCTCTGTAGAGT 191
Qy 601 CGAGGTGGCAAGCAACCAAGGTTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAG 660

Db 190 GCAGGGAGGCAAGCAACCAAGGTTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAG 131
Qy 661 GTCCATTTCAGCTCTCTGGCATTTAACCTACCAAGCATCCAGTGGTCCCAAGGAATCCCTTC 720
Db 130 GTCCATTTCAGCTCTCTGGCATTTAACCTACCAAGCATCCAGTGGTCCCAAGGAATCCCTTC 71
Qy 721 CTAGCCTCTGACATGATGCTGTGGAAAGAGCATCCAAACAAACAAGTAATAATAAAT 780
Db 70 CTAGCCTCTGACATGATGCTGTGGAAAGAGCATCCAAACAAACAAGTAATAATAAAT 11
Qy 781 AATAAATCT 790
Db 10 AATAAATCT 1
RESULT 11
A1813445/c
LOCUS
DEFINITION
WJ06E01.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2402040 3',
mRNA sequence.
ACCESSION
A1813445
VERSION
A1813445.1 GI:5424660
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 429)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
AUTHORS
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
TITLE
Tumor Gene Index
JOURNAL
Unpublished (1997)
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 616 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 389.
LOCATION/Qualifiers
1..429
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2402040"
/clone_lib="NCI_CGAP Kid12"
/tissue_type="2_pooled tumors (clear cell type)"
/lab_host="DH10B"
/notes="Organ: kidney; Vector: p773D-Pac (Pharmacia) with
a modified polylinker; Site 1: Not I; Site 2: Eco RI;
Plasmid DNA from the normalized library NCI_CGAP Kid5 was
prepared and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(cloneIDs 1323912-1325831, 1471368-1472903 and
1492104-1493255). Subtraction by Bento Soares and M.
Fatima Bonaldo."
BASE COUNT 86 a 90 c 132 g 121 t
ORIGIN
Query Match 46.8%; Score 377; DB 9; Length 429;
Best Local Similarity 99.8%; Pred. No. 1.2e-177;
Matches 427; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 365 CAGCAGTGAGCTGCAATGTTGGAGGCTTCATCTCGGCTCGAAGGACCTGGGAAAGTT 424

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High quality sequence stop: 403.
Location/Qualifiers
1. 420
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1559589"
/clone_lib="NCI_CGAP_C08"
/tissue_type="adenocarcinoma"
/lab_hosts="DH10B"
/notes="Organ: colon; Vector: p7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from colon adenocarcinoma, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."
Bento Soares 86 a 88 C 130 G 116 C

BASE COUNT 86 a 88 C 130 G 116 C

Query Match 45.4%; Score 369; DB 9; Length 420;
Best Local Similarity 99.8%; Pred. No. 1.2e-173;
Matches 419; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 371 TGAGCTGCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTGGGAAAGTTCAGAA 430
Db 420 TGAGCTGCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTGGGAAAGTTCAGAA 361

Qy 431 CTCACGTCCTTGTCTCAATGTGGCATCACTTTTCAGAGCTATCATGAGCCACCTCAC 490
Db 360 CTCACGTCCTTGTCTCAATGTGGCATCACTTTTCAGAGCTATCATGAGCCACCTCAC 301

Qy 491 CCCACAGGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGCACACCCAGGACATTCGA 550
Db 300 CCCACAGGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGCACACCCAGGACATTCGA 241

Qy 551 CCATGACCGGTACAGCTACAAATCCAGAGCCATCAATCTCTGCTAGAGTCGAGGGTGGC 610
Db 240 CCATGACCGGTACAGCTACAAATCCAGAGCCATCAATCTCTGCTAGAGTCGAGGGTGGC 181

Qy 611 AAGCACCAAGGGTGGCTGACCAAGCTGCAGAGTCTCTCCATCTTCAGTCCATTCAG 670
Db 180 AAGCACCAAGGGTGGCTGACCAAGCTGCAGAGTCTCTCCATCTTCAGTCCATTCAG 121

Qy 671 CCTCTGGCATTTAACTACCAGCTCCAGTGTGCTCCCAAGGAATCCCTTCTAGGCTCCT 730
Db 120 CCTCTGGCATTTAACTACCAGCTCCAGTGTGCTCCCAAGGAATCCCTTCTAGGCTCCT 61

Qy 731 GACATGAGTCTGCTGGAAAGAGCTCCAAACAAACAAAGTAATAATAATAATAAATC 790
Db 60 GACATGAGTCTGCTGGAAAGAGCTCCAAACAAACAAAGTAATAATAATAATAAATC 1

RESULT 14
AI832391/c
LOCUS
DEFINITION
IMAGE:2377181 3', mRNA sequence.
AI832391
VERSION
AI832391.1 GI:545380
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 455)
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S., Krizman, D., Kucaba, T., Lacy, M., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.
TITLE
WashU-NCI human EST Project
JOURNAL
Unpublished (1997)
COMMENT
Contact: Wilson RK

Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -40UP from Gibco
High quality sequence stop: 420.
Location/Qualifiers
1. 455
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2377181"
/clone_lib="Barstead colon HPLRB7"
/sex="male"
/dev stage="adult, age 25"
/lab_hosts="DH10B (phage resistant)"
/notes="Organ: colon; Vector: p7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: EcoRI; Site 2: NotI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', TGTTACGAATCTGAAGTGGAGCGCGCCCTTTTTTTTTTTTTTTTTTTTGTAGCAATCTGAAGTGGAGCGCGCCCTTTTTTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Eco RI adaptors [5', AATCTACTAGTAAT 3' and 5', ATTACTAGT 3'], digested with Not I and cloned into the Not I and Eco RI sites of the modified p7T3 vector. Library constructed by Bob Barstead."
Bob Barstead 97 a 94 C 145 G 119 T

BASE COUNT 97 a 94 C 145 G 119 T

ORIGIN

Query Match 45.4%; Score 366; DB 9; Length 455;
Best Local Similarity 99.8%; Pred. No. 4e-172;
Matches 416; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 341 TCCTGTCTCCCTTTTCAGCTTCACAGCAGTGCATGCTGCAATGTTGGAGGGCTTCATCTCG 400
Db 455 TCCTGTCTCCCTTTTCAGCTTCACAGCAGTGCATGCTGCAATGTTGGAGGGCTTCATCTCG 396

Qy 401 GGCTGCAAGGACCTCGGAAAGTTCCAGAACTCCACAGTCTCTGTCTCAATGTGCGCATCA 460
Db 395 GGCTGCAAGGACCTCGGAAAGTTCCAGAACTCCGCGTCTCTGTCTCAATGTGCGCATCA 336

Qy 461 ACTTTCAGAGTATCATGAGCAACCTCACCCACAGGGCTCAGTCCGCCACCATGTGGG 520
Db 335 ACTTTCAGAGTATCATGAGCAACCTCACCCACAGGGCTCAGTCCGCCACCATGTGGG 276

Qy 521 CCTCTCAGTGCAACACCCAGGCAATCCACCATGACGGTGCAGCTACAAATCCAGAG 580
Db 275 CCTCTCAGTGCAACACCCAGGCAATCCACCATGACGGTGCAGCTACAAATCCAGAG 216

Qy 581 ACCATCAATCTGCTAGAGTGCAGGGTGGCAAGCACCAAGGGTGGCTGACCAAGACTGC 640
Db 215 ACCATCAATCTGCTAGAGTGCAGGGTGGCAAGCACCAAGGGTGGCTGACCAAGACTGC 156

Qy 641 AGAGTCTCTCCATCTTTCAGTCCATTCAGCTCTCTGGCATTTAACTACCAAGCTCCAGT 700
Db 155 AGAGTCTCTCCATCTTTCAGTCCATTCAGCTCTCTGGCATTTAACTACCAAGCTCCAGT 96

Qy 701 GGTCCTCCAGGAATCCCTTCTAGCTCTCTGACATGATGCTGCTGGAAAGAGCATCC 757
Db 95 GGTCCTCCAGGAATCCCTTCTAGCTCTCTGACATGATGCTGCTGGAAAGAGCATCC 39

RESULT 15
AI831407/c
LOCUS
DEFINITION
wJ64a12.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2407582 3', mRNA sequence.
AI831407
ACCESSION
AI831407
VERSION
AI831407.1 GI:5452078
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens

High quality sequence stop: 403.
Location/Qualifiers
1. 420
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1559589"
/clone_lib="NCI_CGAP_C08"
/tissue_type="adenocarcinoma"
/lab_hosts="DH10B"
/notes="Organ: colon; Vector: p7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from colon adenocarcinoma, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified p7T3 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."
Bento Soares 86 a 88 C 130 G 116 C

BASE COUNT 86 a 88 C 130 G 116 C

Query Match 45.4%; Score 369; DB 9; Length 420;
Best Local Similarity 99.8%; Pred. No. 1.2e-173;
Matches 419; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 371 TGAGCTGCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTGGGAAAGTTCAGAA 430
Db 420 TGAGCTGCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTGGGAAAGTTCAGAA 361

Qy 431 CTCACGTCCTTGTCTCAATGTGGCATCACTTTTCAGAGCTATCATGAGCCACCTCAC 490
Db 360 CTCACGTCCTTGTCTCAATGTGGCATCACTTTTCAGAGCTATCATGAGCCACCTCAC 301

Qy 491 CCCACAGGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGCACACCCAGGACATTCGA 550
Db 300 CCCACAGGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGCACACCCAGGACATTCGA 241

Qy 551 CCATGACCGGTACAGCTACAAATCCAGAGCCATCAATCTCTGCTAGAGTCGAGGGTGGC 610
Db 240 CCATGACCGGTACAGCTACAAATCCAGAGCCATCAATCTCTGCTAGAGTCGAGGGTGGC 181

Qy 611 AAGCACCAAGGGTGGCTGACCAAGCTGCAGAGTCTCTCCATCTTCAGTCCATTCAG 670
Db 180 AAGCACCAAGGGTGGCTGACCAAGCTGCAGAGTCTCTCCATCTTCAGTCCATTCAG 121

Qy 671 CCTCTGGCATTTAACTACCAGCTCCAGTGTGCTCCCAAGGAATCCCTTCTAGGCTCCT 730
Db 120 CCTCTGGCATTTAACTACCAGCTCCAGTGTGCTCCCAAGGAATCCCTTCTAGGCTCCT 61

Qy 731 GACATGAGTCTGCTGGAAAGAGCTCCAAACAAACAAAGTAATAATAATAATAAATC 790
Db 60 GACATGAGTCTGCTGGAAAGAGCTCCAAACAAACAAAGTAATAATAATAATAAATC 1

RESULT 14
AI832391/c
LOCUS
DEFINITION
IMAGE:2377181 3', mRNA sequence.
AI832391
VERSION
AI832391.1 GI:545380
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 455)
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S., Krizman, D., Kucaba, T., Lacy, M., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.
TITLE
WashU-NCI human EST Project
JOURNAL
Unpublished (1997)
COMMENT
Contact: Wilson RK

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 467)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 756 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 458.

FEATURES

Location/Qualifiers
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2407582"
/clone_lib="NCI CGAP Lul9"
/tissue_type="squamous cell carcinoma, poorly differentiated (4 pooled tumors, including primary and metastatic)"
/dev_stage="adult"
/lab_host="DH10B (phage-resistant)"
/note="Organ: lung; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from pooled lung tumor tissue, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 95 a 94 c 146 g 132 t
ORIGIN

Query Match 44.9%; Score 362; DB 9; Length 467;
Best Local Similarity 99.6%; Pred. No. 4.1e-170;
Matches 462; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 343 CTGCTCCCTTTTCAGCTTTCACAGCAGTGCAGTGTGGAGGGCTTCATCTCGG 402
Db 467 CTGCTCCCTTTTCAGCTTTCACAGCAGTGCAGTGTGGAGGGCTTCATCTCGG 408
Qy 403 CTGCAAGGACCTGGGAAGTTCAGAACTCCAGTCTCTCTCAATTGTGCCATCAAC 462
Db 407 CTGCAAGGACCTGGGAAGTTCAGAACTCCAGTCTCTCTCAATTGTGCCATCAAC 348
Qy 463 TTTACAGCTATCATGAGCAACCTCACCCACAGGGCTCAGTCGCCACCATGTGGGCC 522
Db 347 TTTACAGCTATCATGAGCCAACTCACCCACAGGGCTCAGTCGCCACCATGTGGGCC 288
Qy 523 TCTCCAGTGCACCAACCCAGCAGTTCACCATGACCGGTCAAGCTACAAATCCAGAGAC 582
Db 287 TCTCCAGTGCACCAACCCCGAGCATTCACCATGACCGGTCAAGCTACAAATCCAGAGAC 228
Qy 583 CATCAATCTCTAGAGTGCAGGGTGGCAAGCACCAGGGTGGCTGACCAAGACTGCAG 642
Db 227 CATCAATCTCTAGAGTGCAGGGGAGGAGCAAGCACCAGGGTGGCTGACCAAGACTGCAG 168
Qy 643 AGTCTCTCCATCTTCAGGTCCATTTCAGCTCTCTGGCATTTAACTTACCAGCATCCAGTGG 702
Db 167 AGTCTCTCCATCTTCAGGTCCATTTCAGCTCTCTGGCATTTAACTTACCAGCATCCAGTGG 108
Qy 703 TCCCCAAGGAATCCCTTCTAGCTCTCTGATGATGTCTGTGAAAGAGCATCCAAACA 762

Db 107 TCCCCAAGGAATCCCTTCTAGCTCTCTGACATGAGTCTCTGGAAAGAGCATCCAAACA 48
Qy 763 AACAAAGTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 806
Db 47 AACAAAGTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 4
Search completed: May 17, 2003, 17:12:07
Job time : 1749 secs

GenCore version 5.1.4_p5.4578
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OM nucleic - nucleic search, using sw model

Run on: May 17, 2003, 13:37:01 ; Search time 56 Seconds
(without alignments)
4413.955 Million cell updates/sec

Title: US-09-724-000A-4
Perfect score: 806
Sequence: 1 ggaacgggggaaatctgcc.....actcaatgcagacacaaaaa 806

Scoring table: OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 441362 seqs, 153338381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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2: /cgn2_6/ptodata/1/ina/5B.COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B.COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PTUS.COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	2.5	12847	1	US-08-550-715-1
2	19	2.4	425	4	US-09-641-638-326
3	19	2.4	465	6	5496550-9
4	19	2.4	466	6	5496550-7
5	19	2.4	472	4	US-08-943-731-123
6	19	2.4	2249	2	US-08-463-081B-34
7	19	2.4	2249	2	US-08-461-379A-34
8	19	2.4	2249	2	US-08-462-390B-34
9	19	2.4	2249	3	US-08-463-074B-34
10	19	2.4	2249	3	US-08-465-585C-34
11	19	2.4	2249	3	US-08-652-446-34
12	19	2.4	2318	4	US-09-851-062-3
13	19	2.4	2362	1	US-08-285-087-1
14	19	2.4	2362	1	US-08-621-493-1
15	19	2.4	2362	2	US-08-965-688-1
16	19	2.4	2362	4	US-09-260-173-1
17	19	2.4	3865	1	US-08-832-883-48
18	19	2.4	3865	2	US-08-832-877-48
19	19	2.4	4281	4	US-09-357-206A-8
20	19	2.4	5630	2	US-08-937-931-1
21	19	2.4	5630	4	US-09-285-502-1
22	19	2.4	5630	4	US-09-709-126-1
23	19	2.4	5630	4	US-09-871-385A-1
24	19	2.4	7521	4	US-09-004-838-116
25	19	2.4	7874	4	US-09-780-175-96
26	19	2.4	9365	4	US-09-608-285A-8
27	19	2.4	9365	4	US-09-350-836B-8

c	28	19	2.4	9365	4	US-09-370-265-8	Sequence 8, Appli
	29	19	2.4	10881	4	US-09-357-206A-9	Sequence 9, Appli
	30	19	2.4	12286	4	US-09-357-206A-1	Sequence 1, Appli
c	31	19	2.4	14747	4	US-09-608-285A-42	Sequence 42, Appli
	32	19	2.4	14796	4	US-08-975-080-35	Sequence 35, Appli
	33	19	2.4	14796	4	US-09-630-706-10	Sequence 10, Appli
	34	19	2.4	14796	4	US-09-496-694B-3	Sequence 3, Appli
c	35	19	2.4	15977	4	US-09-608-285A-59	Sequence 59, Appli
	36	19	2.4	18073	4	US-09-078-294-12	Sequence 12, Appli
c	37	19	2.4	24183	4	US-08-943-731-3	Sequence 3, Appli
	38	19	2.4	72604	4	US-09-268-992-7	Sequence 7, Appli
	39	19	2.4	72604	4	US-09-557-474-7	Sequence 7, Appli
	40	19	2.4	98844	4	US-09-791-211-10	Sequence 10, Appli
c	41	19	2.4	162450	4	US-09-345-882-1	Sequence 1, Appli
c	42	18	2.2	21	4	US-09-165-868-8	Sequence 8, Appli
c	43	18	2.2	46	1	US-08-222-177A-349	Sequence 349, App
	44	18	2.2	66	1	US-08-232-177A-301	Sequence 301, App
	45	18	2.2	206	2	US-08-623-906A-10	Sequence 10, Appli

ALIGNMENTS

RESULT 1
US-08-550-715-1
; Sequence 1, Application US/08550715
; Patent No. 5750345
; GENERAL INFORMATION:
; APPLICANT: Bowie, Lemuel J.
; TITLE OF INVENTION: Human -Thalassemia Mutations as a Predictor of
; TITLE OF INVENTION: Blood-Related Disorders
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/550,715
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Gass, David A.
; REGISTRATION NUMBER: 38,153
; REFERENCE/DOCKET NUMBER: 28493/32834
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12847 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(6703..6797, 6915..7119, 7262..7387)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(10514..10608, 10726..10930, 11080..11205)
; US-08-550-715-1

Query Match 2.5%; Score 20; DB 1; Length 12847;
Best Local Similarity 100.0%; Pred. No. 1.8;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 770 AATAAATAAATAAATAACT 789
 Db 4590 AATAAATAAATAAATAACT 4609

RESULT 2

US-09-641-638-326/c
 ; Sequence 326 Application US/09641638
 ; Patent No. 6432648
 ; GENERAL INFORMATION:
 ; APPLICANT: Blumenfeld, Marta
 ; APPLICANT: Bougueleret, Lydie
 ; APPLICANT: Chumakov, Ilva
 ; APPLICANT: Cohen, Annick
 ; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
 ; TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
 ; FILE REFERENCE: GENSET.051CP1
 ; CURRENT APPLICATION NUMBER: US/09/641,638
 ; PRIOR FILING DATE: 2000-08-16
 ; PRIOR APPLICATION NUMBER: US 09/502,330
 ; PRIOR FILING DATE: 2000-02-11
 ; PRIOR APPLICATION NUMBER: US 60/133,200
 ; PRIOR FILING DATE: 1999-05-07
 ; PRIOR APPLICATION NUMBER: US 09/275,267
 ; PRIOR FILING DATE: 1999-03-23
 ; PRIOR APPLICATION NUMBER: US 60/119,917
 ; PRIOR FILING DATE: 1999-02-12
 ; NUMBER OF SEQ ID NOS: 1304
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 326
 ; LENGTH: 425
 ; TYPE: DNA
 ; ORGANISM: Homo Sapiens
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 276
 ; OTHER INFORMATION: 10-65-276 : polymorphic base A or G
 ; NAME/KEY: misc_binding
 ; LOCATION: 256..275
 ; OTHER INFORMATION: 10-65-276.mis1, potential
 ; NAME/KEY: misc_binding
 ; LOCATION: 277..295
 ; OTHER INFORMATION: 10-65-276.mis2, complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 1..19
 ; OTHER INFORMATION: upstream amplification primer
 ; NAME/KEY: primer_bind
 ; LOCATION: 408..425
 ; OTHER INFORMATION: downstream amplification primer, complement
 ; NAME/KEY: misc_binding
 ; LOCATION: 264..289
 ; OTHER INFORMATION: 10-65-276 potential probe
 ; US-09-641-638-326

Query Match 2.4%; Score 19; DB 4; Length 425;
 Best Local Similarity 100.0%; Pred. No. 5.3;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 770 AATAAATAAATAAATAAC 788
 Db 350 AATAAATAAATAAATAAC 332

RESULT 3

US-09-641-638-326/c
 ; Sequence 326 Application US/09641638
 ; Patent No. 6432648
 ; GENERAL INFORMATION:
 ; APPLICANT: Blumenfeld, Marta
 ; APPLICANT: Bougueleret, Lydie
 ; APPLICANT: Chumakov, Ilva
 ; APPLICANT: Cohen, Annick
 ; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
 ; TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
 ; FILE REFERENCE: GENSET.051CP1
 ; CURRENT APPLICATION NUMBER: US/09/641,638
 ; PRIOR FILING DATE: 2000-08-16
 ; PRIOR APPLICATION NUMBER: US 09/502,330
 ; PRIOR FILING DATE: 2000-02-11
 ; PRIOR APPLICATION NUMBER: US 60/133,200
 ; PRIOR FILING DATE: 1999-05-07
 ; PRIOR APPLICATION NUMBER: US 09/275,267
 ; PRIOR FILING DATE: 1999-03-23
 ; PRIOR APPLICATION NUMBER: US 60/119,917
 ; PRIOR FILING DATE: 1999-02-12
 ; NUMBER OF SEQ ID NOS: 1304
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 326
 ; LENGTH: 425
 ; TYPE: DNA
 ; ORGANISM: Homo Sapiens
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 276
 ; OTHER INFORMATION: 10-65-276 : polymorphic base A or G
 ; NAME/KEY: misc_binding
 ; LOCATION: 256..275
 ; OTHER INFORMATION: 10-65-276.mis1, potential
 ; NAME/KEY: misc_binding
 ; LOCATION: 277..295
 ; OTHER INFORMATION: 10-65-276.mis2, complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 1..19
 ; OTHER INFORMATION: upstream amplification primer
 ; NAME/KEY: primer_bind
 ; LOCATION: 408..425
 ; OTHER INFORMATION: downstream amplification primer, complement
 ; NAME/KEY: misc_binding
 ; LOCATION: 264..289
 ; OTHER INFORMATION: 10-65-276 potential probe
 ; US-09-641-638-326

Query Match 2.4%; Score 19; DB 4; Length 425;

Best Local Similarity 100.0%; Pred. No. 5.3;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

APPLICATION NUMBER: US/09/108,763
 FILING DATE: 17-AUG-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 642,219
 FILING DATE: 16-JAN-1991
 APPLICATION NUMBER: 310,603
 FILING DATE: 14-FEB-1989
 APPLICATION NUMBER: 155,245
 FILING DATE: 12-FEB-1988
 APPLICATION NUMBER: 896,611
 FILING DATE: 14-AUG-1986
 ; SEQ ID NO: 9
 ; LENGTH: 465
 ; 5496550-9

Query Match 2.4%; Score 19; DB 6; Length 465;
 Best Local Similarity 100.0%; Pred. No. 5.3;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 769 TAATAAATAAATAAATAA 787
 Db 203 TAATAAATAAATAAATAA 221

RESULT 4

US-09-641-638-326/c
 ; Sequence 326 Application US/09641638
 ; Patent No. 6432648
 ; GENERAL INFORMATION:
 ; APPLICANT: Blumenfeld, Marta
 ; APPLICANT: Bougueleret, Lydie
 ; APPLICANT: Chumakov, Ilva
 ; APPLICANT: Cohen, Annick
 ; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
 ; TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
 ; FILE REFERENCE: GENSET.051CP1
 ; CURRENT APPLICATION NUMBER: US/09/641,638
 ; PRIOR FILING DATE: 2000-08-16
 ; PRIOR APPLICATION NUMBER: US 09/502,330
 ; PRIOR FILING DATE: 2000-02-11
 ; PRIOR APPLICATION NUMBER: US 60/133,200
 ; PRIOR FILING DATE: 1999-05-07
 ; PRIOR APPLICATION NUMBER: US 09/275,267
 ; PRIOR FILING DATE: 1999-03-23
 ; PRIOR APPLICATION NUMBER: US 60/119,917
 ; PRIOR FILING DATE: 1999-02-12
 ; NUMBER OF SEQ ID NOS: 1304
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 326
 ; LENGTH: 425
 ; TYPE: DNA
 ; ORGANISM: Homo Sapiens
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 276
 ; OTHER INFORMATION: 10-65-276 : polymorphic base A or G
 ; NAME/KEY: misc_binding
 ; LOCATION: 256..275
 ; OTHER INFORMATION: 10-65-276.mis1, potential
 ; NAME/KEY: misc_binding
 ; LOCATION: 277..295
 ; OTHER INFORMATION: 10-65-276.mis2, complement
 ; NAME/KEY: primer_bind
 ; LOCATION: 1..19
 ; OTHER INFORMATION: upstream amplification primer
 ; NAME/KEY: primer_bind
 ; LOCATION: 408..425
 ; OTHER INFORMATION: downstream amplification primer, complement
 ; NAME/KEY: misc_binding
 ; LOCATION: 264..289
 ; OTHER INFORMATION: 10-65-276 potential probe
 ; US-09-641-638-326

Query Match 2.4%; Score 19; DB 6; Length 466;
 Best Local Similarity 100.0%; Pred. No. 5.3;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 769 TAATAAATAAATAAATAA 787
 Db 204 TAATAAATAAATAAATAA 222

RESULT 5

US-08-943-731-123/c
 ; Sequence 123 Application US/08943731
 ; Patent No. 6265157
 ; GENERAL INFORMATION:
 ; APPLICANT: PROCKOP, DARWIN J.
 ; APPLICANT: SPOTILA, LORETTA D.
 ; APPLICANT: DELTAS, CONSTANTINOS D.
 ; APPLICANT: SEREDA, LARISA
 ; APPLICANT: LARSON, ANDREA W.
 ; APPLICANT: PACK, MICHAEL
 ; APPLICANT: COLIGE, ALAIN
 ; APPLICANT: EARLY, JAMES
 ; APPLICANT: KORKKO, JARMO
 ; APPLICANT: ALA-KORKKO, LEENA, et al.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING
 ; TITLE OF INVENTION: ALTERED TYPE I OR TYPE IX COLLAGEN GENE SEQUENCES


```

; NUMBER OF SEQUENCES: 666
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITICH SCHWARZE JACOBS & NADEL, P.C.
; STREET: ONE COMMERCE SQUARE, 2005 MARKET STREET, 22ND
; STREET: FLR.
; CITY: PHILADELPHIA
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-7086
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,731
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/212,322
; FILING DATE: 14-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/803,628
; FILING DATE: 03-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: DOYLE LEARY PH.D., KATHRYN
; REGISTRATION NUMBER: 36,317
; REFERENCE/DOCKET NUMBER: 9598-27
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-965-1284
; TELEFAX: 215-567-2991
; TELEX: 831-494
; INFORMATION FOR SEQ ID NO: 123:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 472 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-943-731-123

Query Match 2.4%; Score 19; DB 4; Length 472;
Best Local Similarity 100.0%; Pred. No. 5.3;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 769 TAAATAAATAAATAAATAA 787
Db 106 TAAATAAATAAATAAATAA 88

RESULT 6
US-08-463-081B-34
; Sequence 34, Application US/08463081B
; Patent No. 5871960
; Patent No. 5871960 5837487
; GENERAL INFORMATION:
; APPLICANT: Smith, Kendall A. & Beadling, Carol
; TITLE OF INVENTION: Nucleic Acids Encoding CR5 Polypeptide,
; TITLE OF INVENTION: Vector and Transformed Cell Thereof, and Expression Thereof
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PRETTY, SCHROEDER & POPLAWSKI
; STREET: 444 South Flower St. - Suite 1900
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0,
; Version #1.25

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/463,081B
; FILING DATE: 5-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/104,736
; FILING DATE: 10-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/796,066
; FILING DATE: 20-NOV-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Viviana Amzel, Ph. D.
; REGISTRATION NUMBER: 30,930
; REFERENCE/DOCKET NUMBER: P66 38150 (DART-060)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 622-7700
; TELEFAX: (213) 489-4210
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2249 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-463-081B-34

Query Match 2.4%; Score 19; DB 2; Length 2249;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788
Db 1817 AATAAATAAATAAATAAAC 1835

RESULT 7
US-08-461-379A-34
; Sequence 34, Application US/08461379A
; Patent No. 5871961
; GENERAL INFORMATION:
; APPLICANT: Smith, Kendall A. & Beadling, Carol
; TITLE OF INVENTION: Nucleic Acids Encoding CR5 Polypeptide,
; TITLE OF INVENTION: Vector and Transformed Cell Thereof, and
; TITLE OF INVENTION: Expression Thereof
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ratner & Prestia
; ADDRESSEE: (B) STREET: One Westlakes-Berwyn
; CITY: Valley Forge
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0,
; SOFTWARE: Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/461,379A
; FILING DATE: 5-JUNE-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USN 08/330,108; 08/104,736
; APPLICATION NUMBER: & 07/796,066
; FILING DATE: 27-OCT-1994; 10-AUG-1993 & 20-NOV-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Viviana Amzel, Ph. D.
; REGISTRATION NUMBER: 30,930
; REFERENCE/DOCKET NUMBER: DART-070
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 470-0700
; TELEFAX: (610) 470-0701
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 2249 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-461-379A-34

Query Match 2.4%; Score 19; DB 2; Length 2249;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788
Db 1817 AATAAATAAATAAATAAAC 1835

RESULT 8
US-08-462-390B-34
; Sequence 34, Application US/08462390B
; Patent No. 5882894
; GENERAL INFORMATION:
; APPLICANT: Smith, K. A., & Beadling, C.
; TITLE OF INVENTION: Nucleic Acids Encoding CR8 Polypeptide, Vector and
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ratner & Prestia
; ADDRESS: (B) STREET: One Westlakes-Berwyn
; CITY: Valley Forge
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,390B
; FILING DATE: 5-JUNE-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/330,108
; FILING DATE: 27-OCT-1994
; APPLICATION NUMBER: USSN 08/104,736
; FILING DATE: 10-AUG-1993
; APPLICATION NUMBER: USSN 07/796,066
; FILING DATE: 20-NOV-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Viviana Amzel, Ph. D.
; REGISTRATION NUMBER: 30,930
; REFERENCE/DOCKET NUMBER: DART-040
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)407-0700
; TELEFAX: (610)407-0701
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2249 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-462-390B-34

Query Match 2.4%; Score 19; DB 2; Length 2249;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788
Db 1817 AATAAATAAATAAATAAAC 1835

RRSULT 9
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US-08-463-074B-34
; Sequence 34, Application US/08463074B
; Patent No. 6020155
; GENERAL INFORMATION:
; APPLICANT: Smith, Kendall A. & Beadling, Carol
; TITLE OF INVENTION: Nucleic Acids Encoding CR1 Fusion Protein, Vector an
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PRETTY, SCHROEDER & POPLAWSKI
; ADDRESS: (B) STREET:
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0,
; SOFTWARE: Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/463,074B
; FILING DATE: 5-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/104,736
; FILING DATE: 10-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/796,066
; FILING DATE: 20-NOV-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Viviana Amzel, Ph. D.
; REGISTRATION NUMBER: 30,930
; REFERENCE/DOCKET NUMBER: P66 38143 (DART-020)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 622-7700
; TELEFAX: (213) 489-4210
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2249 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-463-074B-34

Query Match 2.4%; Score 19; DB 3; Length 2249;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788
Db 1817 AATAAATAAATAAATAAAC 1835

RESULT 10
US-08-465-585C-34
; Sequence 34, Application US/08465585C
; Patent No. 6027914
; GENERAL INFORMATION:
; APPLICANT: Smith, K. A., & Beadling, C.
; TITLE OF INVENTION: Nucleic Acids Encoding CR6 Polypeptide, Vecto
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PRETTY, SCHROEDER & POPLAWSKI
; ADDRESS: (B) STREET:
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 900071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; 444South Flower St. - Suite 1901
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465.585C
FILING DATE: 5-JUNE-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/330,108
FILING DATE: 27-OCT-1994
APPLICATION NUMBER: USSN 08/104,736
FILING DATE: 10-AUG-1993
APPLICATION NUMBER: USSN 07/796,066
FILING DATE: 20-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: Viviana Amzel, Ph. D.
REGISTRATION NUMBER: 30,930
REFERENCE/DOCKET NUMBER: P66 38149 (DART-050)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 622-7700
TELEFAX: (213) 4894210
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 2249 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-465-585C-34

Query Match 2.4%; Score 19; DB 3; Length 2249;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788
Db 1817 AATAAATAAATAAATAAAC 1835

RESULT 11
US-08-652-446-34
Sequence 34, Application US/08652446
Patent No. 6057427

GENERAL INFORMATION:
APPLICANT: Smith, Kendall A. & Beadling, Carol
TITLE OF INVENTION: Nucleic Acids Encoding CRS
TITLE OF INVENTION: Polypeptide, Vector and Transformed Cell Thereof, and
TITLE OF INVENTION: Expression Thereof
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: PRETTY, SCHROEDER & POPLAWSKI
ADDRESS: (B) STREET:
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071

444 South Flower St. - Suite 1900

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
SOFTWARE: Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/652.446
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP App. # 96921319.8
FILING DATE: 5-JAN-1998
APPLICATION NUMBER: PCT/US/96/09194
FILING DATE: 5-JUN-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/330,108
FILING DATE: 27-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/463,074

FILING DATE: 5-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/462,337
FILING DATE: 5-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/462,390
FILING DATE: 5-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/465,585
FILING DATE: 5-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/463,081
FILING DATE: 5-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/461,379
FILING DATE: 5-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/739,523
FILING DATE: 29-OCT-1996
ATTORNEY/AGENT INFORMATION:
NAME: Viviana Amzel, Ph. D.
REGISTRATION NUMBER: 30,930
REFERENCE/DOCKET NUMBER: FP66 40035
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 622-7700
TELEFAX: (213) 489-4210
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 2249 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-652-446-34

Query Match 2.4%; Score 19; DB 3; Length 2249;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788
Db 1817 AATAAATAAATAAATAAAC 1835

RESULT 12
US-09-851-062-3/c
Sequence 3, Application US/09851062
Patent No. 6448081
GENERAL INFORMATION:
APPLICANT: Brenda F. Baker
TITLE OF INVENTION: ANTISENSE MODULATION OF INTERLEUKIN 12 P40 SUBUNIT EXPRESSION
FILE REFERENCE: RTS-0247
CURRENT APPLICATION NUMBER: US/09/851,062
CURRENT FILING DATE: 2001-05-07
NUMBER OF SEQ ID NOS: 87
SEQ ID NO 3
LENGTH: 2318
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (14)...(1000)
US-09-851-062-3

Query Match 2.4%; Score 19; DB 4; Length 2318;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788
Db 2274 AATAAATAAATAAATAAAC 2256

RESULT 13

US-08-265-087-1/c
 ; Sequence 1, Application US/08265087
 ; Patent No. 5571515
 ; GENERAL INFORMATION:
 ; APPLICANT: Scott, Phillip
 ; APPLICANT: Trinchieri, Giorgio
 ; TITLE OF INVENTION: Compositions and Methods for Use of
 ; TITLE OF INVENTION: IL-12 as an Adjuvant
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Howson and Howson
 ; STREET: Spring House Corporate Center, PO Box 457
 ; CITY: Spring House
 ; STATE: Pennsylvania
 ; COUNTRY: USA
 ; ZIP: 19477
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/265,087
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/229,282
 ; FILING DATE: 18-APR-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bak, Mary E.
 ; REGISTRATION NUMBER: 31,215
 ; REFERENCE/DOCKET NUMBER: WST51AUSA
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 215-540-9206
 ; TELEFAX: 215-540-5818
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2362 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: cdna
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 33..1016
 ; US-08-265-087-1

Query Match 2.4%; Score 19; DB 1; Length 2362;
 Best Local Similarity 100.0%; Pred. No. 5.4;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788

Db 2293 AATAAATAAATAAATAAAC 2275

RESULT 14

US-08-621-493-1/c
 ; Sequence 1, Application US/08621493
 ; Patent No. 5723127
 ; GENERAL INFORMATION:
 ; APPLICANT: Scott, Phillip
 ; APPLICANT: Trinchieri, Giorgio
 ; TITLE OF INVENTION: Compositions and Methods for Use of
 ; TITLE OF INVENTION: IL-12 as an Adjuvant
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Howson and Howson
 ; STREET: Spring House Corporate Center, PO Box 457
 ; CITY: Spring House
 ; STATE: Pennsylvania

; COUNTRY: USA
 ; ZIP: 19477
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/621,493
 ; FILING DATE: 25-MAR-1996
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/265,087
 ; FILING DATE: 17-JUN-1994
 ; APPLICATION NUMBER: US 08/229,282
 ; FILING DATE: 18-APR-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bak, Mary E.
 ; REGISTRATION NUMBER: 31,215
 ; REFERENCE/DOCKET NUMBER: WST51AUSA
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 215-540-9206
 ; TELEFAX: 215-540-5818
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2362 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: cdna
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 33..1016
 ; US-08-621-493-1

Query Match 2.4%; Score 19; DB 1; Length 2362;
 Best Local Similarity 100.0%; Pred. No. 5.4;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 770 AATAAATAAATAAATAAAC 788

Db 2293 AATAAATAAATAAATAAAC 2275

RESULT 15

US-08-965-688-1/c
 ; Sequence 1, Application US/08965688
 ; Patent No. 5976539
 ; GENERAL INFORMATION:

; APPLICANT: Scott, Phillip
 ; APPLICANT: Trinchieri, Giorgio
 ; TITLE OF INVENTION: Compositions and Methods for Use of
 ; TITLE OF INVENTION: IL-12 as an Adjuvant
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Howson and Howson
 ; STREET: Spring House Corporate Center, PO Box 457
 ; CITY: Spring House
 ; STATE: Pennsylvania
 ; COUNTRY: USA

; ZIP: 19477

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/965,688

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/621,493

; FILING DATE: 25-MAR-1996

; APPLICATION NUMBER: 08/265,087
; FILING DATE: 17-JUN-1994
; APPLICATION NUMBER: US 08/229,282
; FILING DATE: 18-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: WST51AUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9206
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2362 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 33..1016
; US-08-965-688-1

Query Match 2.4%; Score 19; DB 2; Length 2362;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 770 AATAAATAAATAAATAAAC 788
|||||
Db 2293 AATAAATAAATAAATAAAC 2275

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Job time : 86 secs

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Title: US-09-724-000A-4
Perfect score: 806
Sequence: 1 ggaacgagggaaatctgcc.....actcaatgcagacacaaaa 806

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Minimum DB seq length: 0

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description
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5	782	97.0	804	9	US-10-140-470-149
6	782	97.0	804	9	US-10-175-746-149
7	782	97.0	804	9	US-10-176-918-149
8	782	97.0	804	9	US-10-176-921-149
9	782	97.0	804	9	US-10-137-865-149
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11	782	97.0	804	9	US-10-142-431-149
12	782	97.0	804	9	US-10-143-114-149
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16	782	97.0	804	9	US-10-142-423-149
17	782	97.0	804	9	US-10-121-050-149
18	782	97.0	804	9	US-10-141-755-149
19	782	97.0	804	9	US-10-143-032-149

20	782	97.0	804	9	US-10-123-108-149	Sequence 149, App
21	782	97.0	804	9	US-10-123-236-149	Sequence 149, App
22	782	97.0	804	9	US-10-123-261-149	Sequence 149, App
23	782	97.0	804	9	US-10-140-921-149	Sequence 149, App
24	782	97.0	804	9	US-10-140-928-149	Sequence 149, App
25	782	97.0	804	9	US-10-121-045-149	Sequence 149, App
26	782	97.0	804	9	US-10-123-292-149	Sequence 149, App
27	782	97.0	804	9	US-10-123-903-149	Sequence 149, App
28	782	97.0	804	9	US-10-124-819-149	Sequence 149, App
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31	782	97.0	804	9	US-10-160-498-149	Sequence 149, App
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33	782	97.0	804	9	US-10-121-043-149	Sequence 149, App
34	782	97.0	804	9	US-10-121-047-149	Sequence 149, App
35	782	97.0	804	9	US-10-123-215-149	Sequence 149, App
36	782	97.0	804	9	US-10-123-902-149	Sequence 149, App
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ALIGNMENTS

RESULT 1
US-09-981-353-177
; Sequence 177, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 177
; LENGTH: 800
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1736965CB1
US-09-981-353-177

Query Match		97.1%	Score 783;	DB 9;	Length 800;
Best Local Similarity		100.0%	Pred. No. 0;		
Matches 783;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	10	GAATAATCGCTTCTCACCATGAGGCTTCTAGTCTTTCCAGCCTGCTCTGTATCTCTGCT	69		
Db	6	GAATAATCGCTTCTCACCATGAGGCTTCTAGTCTTTCCAGCCTGCTCTGTATCTCTGCT	65		
Qy	70	TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCGTCTGCCAAGGCTTGGTCAGG	129		
Db	66	TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCGTCTGCCAAGGCTTGGTCAGG	125		
Qy	130	CAGAGAACCGAGGCTTGTGTCACCGAGTCCCTTAGCCCCCAACTCAACAACTGAAAGG	189		
Db	126	CAGAGAACCGAGGCTTGTGTCACCGAGTCCCTTAGCCCCCAACTCAACAACTGAAAGG	185		
Qy	190	ACATCATGTAGGCTCTGTAAACCATCAAGCTTGAGCCAGAGCCCGCTTTGGTGGT	249		
Db	186	ACATCATGTAGGCTCTGTAAACCATCAAGCTTGAGCCAGAGCCCGCTTTGGTGGT	245		

Qy	250	GCCTGGGGCACTCCACAGAGTGTAGCATCTCCAAAGCAAGACTCCAGACAGCGGAGAACC	309
Db	246	GCCTGGGGCACTCCACAGAGTGTAGCATCTCCAAAGCAAGACTCCAGACAGCGGAGAACC	305
Qy	310	TCATGCCTGCGACACTGAGGTACCCAGCAGCGCTCTGTCTCTCCCTTTACGCTTTCACAGCA	369
Db	306	TCATGCCTGCGACACTGAGGTACCCAGCAGCGCTCTGTCTCTCCCTTTTCAGCTTTCACAGCA	365
Qy	370	GTGAGCTGCAANTGTTGAGGGCTTCATCTCGGCTGCAAGGACCCCTGGGAAAGTTTCAGA	429
Db	366	GTGAGCTGCAANTGTTGAGGGCTTCATCTCGGCTGCAAGGACCCCTGGGAAAGTTTCAGA	425
Qy	430	ACTCCAGCTGCTTGTCTCAATTTGTGGCATCAACTTTTCAGAGCTATCATGAGCGCAACCTCA	489
Db	426	ACTCCAGCTGCTTGTCTCAATTTGTGGCATCAACTTTTCAGAGCTATCATGAGCGCAACCTCA	485
Qy	490	CCCCACAGGGCCTCAGTCGCGCCACCATGTGGGCGCTCTCCAGTGCAAAACACCAGAGATTCC	549
Db	486	CCCCACAGGGCCTCAGTCGCGCCACCATGTGGGCGCTCTCCAGTGCAAAACACCAGAGATTCC	545
Qy	550	ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTCTGCTAGAGTCGAGGGTGG	609
Db	546	ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTCTGCTAGAGTCGAGGGTGG	605
Qy	610	CAGACACCAAGGGTGGCTGACCAAGACTGACAGAGTCTCTCTCATCTTCAGTGCATTTCA	669
Db	606	CAAGACCCAAAGGGTGGCTGACCAAGACTGACAGAGTCTCTCTCATCTTCAGTGCATTTCA	665
Qy	670	GCCTCTCGGCATTTAACTACCACGATCCAGTGGTCCCAAGGAATCCCTTCTAGCCTCC	729
Db	666	GCCTCTCGGCATTTAACTACCACGATCCAGTGGTCCCAAGGAATCCCTTCTAGCCTCC	725
Qy	730	TGACATGAGTCTGCTGGAAAGAGCATCCAAAACAAACAGGTAAATAAATAAATAAATAACT	789
Db	726	TGACATGAGTCTGCTGGAAAGAGCATCCAAAACAAACAGGTAAATAAATAAATAAATAACT	785
Qy	790	CAA 792	
Db	786	CAA 788	

RESULTS

```

RES001 2
US/10-028-072-149
; Sequence 149, Application US/10028072
; Publication No. US20030004311A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang
; TITLE OF INVENTION:
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/028,072
; CURRENT FILING DATE: 2001-12-19
; PRIORITY APPLICATION NUMBER: 60/045911
; PRIOR FILING DATE: 1997-06-18
; PRIORITY APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIORITY APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17

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;; PRIOR FILING DATE: 1997-12-16
;; PRIOR APPLICATION NUMBER: 60/072320
;; PRIOR FILING DATE: 1998-01-23
;; PRIOR APPLICATION NUMBER: 60/073612
;; PRIOR FILING DATE: 1998-02-04
;; PRIOR APPLICATION NUMBER: 60/074086
;; PRIOR FILING DATE: 1998-02-09
;; PRIOR APPLICATION NUMBER: 60/074092
;; PRIOR FILING DATE: 1998-02-09
;; PRIOR APPLICATION NUMBER: 60/077791
;; PRIOR FILING DATE: 1998-03-12
;; PRIOR APPLICATION NUMBER: 60/078910
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/079294
;; PRIOR FILING DATE: 1998-03-25
;; PRIOR APPLICATION NUMBER: 60/079663
;; PRIOR FILING DATE: 1998-02-27
;; PRIOR APPLICATION NUMBER: 60/079728
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/080165
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/081203
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081229
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081695
;; PRIOR FILING DATE: 1998-04-14
;; PRIOR APPLICATION NUMBER: 60/081817
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081818
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082999
;; PRIOR FILING DATE: 1998-04-24
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085149
;; PRIOR FILING DATE: 1998-05-12
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
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;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/086414
;; PRIOR FILING DATE: 1998-05-22
;; PRIOR APPLICATION NUMBER: 60/086430
;; PRIOR FILING DATE: 1998-05-22
;; PRIOR APPLICATION NUMBER: 60/087106
;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/088026
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088730
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088741
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088810
;; PRIOR FILING DATE: 1998-06-10
;; PRIOR APPLICATION NUMBER: 60/088858
;; PRIOR FILING DATE: 19/98-06-11

;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089599
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/089947
;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090538
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07

Query Match 97.0%; Score 782; DB 9; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCTTCTCACCATGAGGCTTCTAGTCTTTTCAGGCTGCTGTATCTCTGCT 69
Db 23 GAAATCTGCTTCTCACCATGAGGCTTCTAGTCTTTTCAGGCTGCTGTATCTCTGCT 82
Qy 70 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGCGCTCTGCCAAGGCTCGTCAGG 129
Db 83 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGCGCTCTGCCAAGGCTCGTCAGG 142
Qy 130 CAGGAGAACCAAGGCTCTGCTGCCACCGAGTCCCTTAGCCCCCAACTCAACAACTGAAAGG 189
Db 143 CAGGAGAACCAAGGCTCTGCTGCCACCGAGTCCCTTAGCCCCCAACTCAACAACTGAAAGG 202
Qy 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGGCCCGCTTTGGGTGGT 249
Db 203 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGGCCCGCTTTGGGTGGT 262
Qy 250 GCCTGGGGCACTCCACAGAGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAAC 309
Db 263 GCCTGGGGCACTCCACAGAGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAAC 322
Qy 310 TCATGCTGGCACCTGAGGTACCCAGCAGGCTCTCTGTCTCCCTTTTCAGCCTTCCAGCA 369
Db 323 TCATGCTGGCACCTGAGGTACCCAGCAGGCTCTCTGTCTCCCTTTTCAGCCTTCCAGCA 382
Qy 370 GTGAGCTGCAATGTTGAGGGCTTTCATCTCGGGCTGCAAGAGCCCTGGGAAAGTTCCAGA 429
Db 383 GTGAGCTGCAATGTTGAGGGCTTTCATCTCGGGCTGCAAGAGCCCTGGGAAAGTTCCAGA 442
Qy 430 ACTCCAGCTCTGCTCTCAATTGTGCCATCACTTTTCAGAGCTATCATGAGCCAACTCA 489
Db 443 ACTCCAGCTCTGCTCTCAATTGTGCCATCACTTTTCAGAGCTATCATGAGCCAACTCA 502
Qy 490 CCCACAGGGCTCAGTCGGCCACCATGTGGGGCTCTCCAGTGCAAAACCCAGGCACTTCC 549
Db 503 CCCACAGGGCTCAGTCGGCCACCATGTGGGGCTCTCCAGTGCAAAACCCAGGCACTTCC 562
Qy 550 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTCTGTAGTGCAGGTGG 609
Db 563 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTCTGTAGTGCAGGTGG 622
Qy 610 CAGCACCCCAAGGCTGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGTCCATTCA 669
Db 623 CAGCACCCCAAGGCTGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGTCCATTCA 682

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QY 670 GCCTCTGGCATTAACTACAGCATCCAGTGGTCCCAAGAAATCCCTTCTAGCCTCC 729
DB 683 GCCTCTGGCATTAACTACAGCATCCAGTGGTCCCAAGAAATCCCTTCTAGCCTCC 742
QY 730 TGACATGAGTCTGCTGGAGAGCATCCAAACAAAGTAATAATAATAAACT 789
DB 743 TGACATGAGTCTGCTGGAGAGCATCCAAACAAAGTAATAATAATAAACT 802
QY 790 CA 791
DB 803 CA 804

RESULT 3
; Sequence 149, Application US/10121049
; Publication No. US2003002239A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C17
; CURRENT APPLICATION NUMBER: US/10/121,049
; CURRENT FILING DATE: 2002-04-12
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-121-049-149

Query Match 97.0%; Score 782; DB 9; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 GAAATCTGCCTTCTACCATGAGCTTCTAGTCTCTTCCAGCTGCTCTGTATCTCTGCT 69
DB 23 GAAATCTGCCTTCTACCATGAGCTTCTAGTCTCTTCCAGCTGCTCTGTATCTCTGCT 82
QY 70 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCCAGGCTGGTCAGG 129
DB 83 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCCAGGCTGGTCAGG 142
QY 130 CAGGAGAACACAGGCTCTGCTGCCACCGAGTCCCTAGCCCCCAACTCAACAAACCTGAAAGG 189
DB 143 CAGGAGAACACAGGCTCTGCTGCCACCGAGTCCCTAGCCCCCAACTCAACAAACCTGAAAGG 202
QY 190 ACATCATGTGAGGCTCTCTAAACCATGCAAGCTTGAGCCAGAGCCGCCCTTTGGTGGT 249
DB 203 ACATCATGTGAGGCTCTCTAAACCATGCAAGCTTGAGCCAGAGCCGCCCTTTGGTGGT 262
QY 250 GCCTGGGCACTCCACAGGTTAGTACTCCCAAGCAAGTCCAGACAGGCGGAGACC 309
DB 263 GCCTGGGCACTCCACAGGTTAGTACTCCCAAGCAAGTCCAGACAGGCGGAGACC 322
QY 310 TCATGCTGGCACTGAGGTATCCAGCAGCCTCTGCTCTCCCTTTTCAGCCTTCACAGCA 369
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DB 323 TCATGCTGGCAGCTGAGGTACCCAGCAGCCTCTGCTCTCCCTTTTCAGCCTTCACAGCA 382
QY 370 GTGAGCTGCAATCTTGGAGGGCTTCATCTCGGCTCGCAAGGACCCCTGGGAAAGTTCCAGA 429
DB 383 GTGAGCTGCAATCTTGGAGGGCTTCATCTCGGCTCGCAAGGACCCCTGGGAAAGTTCCAGA 442
QY 430 ACTCCACGCTCTGCTCTCAATTTGTCATCAATTTGTCATCAATTTGTCATCAATTTGTCATCA 489
DB 443 ACTCCACGCTCTGCTCTCAATTTGTCATCAATTTGTCATCAATTTGTCATCAATTTGTCATCA 502
QY 490 CCCACAGGCTCAGTCGCCACATGTGGGCTCTCCAGTGCACAAACACCGAGCATTC 549
DB 503 CCCACAGGCTCAGTCGCCACATGTGGGCTCTCCAGTGCACAAACACCGAGCATTC 562
QY 550 ACCATGACCGGTACAGCTACAAATCCAGAGACATCAATCTCTGCTAGAGTGCAGGCTGG 609
DB 563 ACCATGACCGGTACAGCTACAAATCCAGAGACATCAATCTCTGCTAGAGTGCAGGCTGG 622
QY 610 CAAGCACCCAGGCTGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCATTC 669
DB 623 CAAGCACCCAGGCTGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCATTC 682
QY 670 GCCTCTGGCATTAACTACAGCATCCAGTGGTCCCAAGGAAATCCCTTCTAGCCTCC 729
DB 683 GCCTCTGGCATTAACTACAGCATCCAGTGGTCCCAAGGAAATCCCTTCTAGCCTCC 742
QY 730 TGACATGAGTCTGCTGGAGAGCATCCAAACAAAGTAATAATAATAAACT 789
DB 743 TGACATGAGTCTGCTGGAGAGCATCCAAACAAAGTAATAATAATAAACT 802
QY 790 CA 791
DB 803 CA 804

RESULT 4
US-10-123-904-149
; Sequence 149, Application US/10123904
; Publication No. US20030022328A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C54
; CURRENT APPLICATION NUMBER: US/10/123,904
; CURRENT FILING DATE: 2002-04-16
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-123-904-149

Query Match 97.0%; Score 782; DB 9; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
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Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATATGCTCTTCAACATGAGGCTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTGCT 69
Db 23 GAAATATGCTCTTCAACATGAGGCTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTGCT 82
Qy 70 TCTCTGCTTCTCCATCTTCTCCAGAGGAGGAGGCTCTGCTCCAGGCTGCTGCTAGG 129
Db 83 TCTCTGCTTCTCCATCTTCTCCAGAGGAGGAGGCTCTGCTCCAGGCTGCTGCTAGG 142
Qy 130 CAGGAGAACAGGCTCTGCTGCCACCGAGTCCCTAGTCTCTTTCCAGCCTGCTCTGTATCTGCT 189
Db 143 CAGGAGAACAGGCTCTGCTGCCACCGAGTCCCTAGTCTCTTTCCAGCCTGCTCTGTATCTGCT 202
Qy 190 ACATCATGTGAGGCTCTGTAAACCATCAAGCTTGAGCCAGAGCCCTGCTGCTGCTGCT 249
Db 203 ACATCATGTGAGGCTCTGTAAACCATCAAGCTTGAGCCAGAGCCCTGCTGCTGCTGCT 262
Qy 250 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGGGGAGAAC 309
Db 263 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGGGGAGAAC 322
Qy 310 TCATGCTGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGGGGAGAAC 369
Db 323 TCATGCTGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGGGGAGAAC 382
Qy 370 GTGAGCTGCAATGTTGGAGGCTTCAATCTCGGGCTGCAAGGACCTGCTGCTGCTGCTGCT 429
Db 383 GTGAGCTGCAATGTTGGAGGCTTCAATCTCGGGCTGCAAGGACCTGCTGCTGCTGCTGCT 442
Qy 430 ACTCCAGCTCTGCTCTCAATTTGCGCATCAACTTTTCAGAGCTATCATGAGCCAACTTCA 489
Db 443 ACTCCAGCTCTGCTCTCAATTTGCGCATCAACTTTTCAGAGCTATCATGAGCCAACTTCA 502
Qy 490 CCCACAGGGCTCAGTCGCCACCATGTGGCTCTCTCCAGTGCAACACCCAGGACTTCC 549
Db 503 CCCACAGGGCTCAGTCGCCACCATGTGGCTCTCTCCAGTGCAACACCCAGGACTTCC 562
Qy 550 ACCATGACCGGTTCACAGCTACAAATCCAGAGACCTCAATCTGCTGCTGCTGCTGCTGCT 609
Db 563 ACCATGACCGGTTCACAGCTACAAATCCAGAGACCTCAATCTGCTGCTGCTGCTGCTGCT 622
Qy 610 CAAGCACCCAGGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 669
Db 623 CAAGCACCCAGGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 682
Qy 670 GCCTCTGGCATTTAACTTACAGCATCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 729
Db 683 GCCTCTGGCATTTAACTTACAGCATCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 742
Qy 730 TGACATGAGTCTGCTGGAAAGAGCATCCAAACAAAGTAAATAAATAAATAAATAAATAA 789
Db 743 TGACATGAGTCTGCTGGAAAGAGCATCCAAACAAAGTAAATAAATAAATAAATAAATAA 802
Qy 790 CA 791
Db 803 CA 804

RESULT 5

US-10-140-470-149
; Sequence 149, Application US/10140470
; Publication No. US20030022331A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C160
; CURRENT APPLICATION NUMBER: US/10/140,470
; CURRENT FILING DATE: 2002-05-06
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-140-470-149

Query Match 97.0%; Score 782; DB 9; Length 804;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATATGCTCTTCAACATGAGGCTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTGCT 69
Db 23 GAAATATGCTCTTCAACATGAGGCTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTGCT 82
Qy 70 TCTCTGCTTCTCCATCTTCTCCAGAGGAGGAGGCTCTGCTCCAGGCTGCTGCTAGG 129
Db 83 TCTCTGCTTCTCCATCTTCTCCAGAGGAGGAGGCTCTGCTCCAGGCTGCTGCTAGG 142
Qy 130 CAGGAGAACAGGCTCTGCTGCCACCGAGTCCCTAGTCTCTTTCCAGCCTGCTCTGTATCTGCT 189
Db 143 CAGGAGAACAGGCTCTGCTGCCACCGAGTCCCTAGTCTCTTTCCAGCCTGCTCTGTATCTGCT 202
Qy 190 ACATCATGTGAGGCTCTGTAAACCATCAAGCTTTGAGCCAGAGCCCTGCTGCTGCTGCT 249
Db 203 ACATCATGTGAGGCTCTGTAAACCATCAAGCTTTGAGCCAGAGCCCTGCTGCTGCTGCT 262
Qy 250 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGGGGAGAAC 309
Db 263 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGGGGAGAAC 322
Qy 310 TCATGCTGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGGGGAGAAC 369
Db 323 TCATGCTGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGGGGAGAAC 382
Qy 370 GTGAGCTGCAATGTTGGAGGCTTCAATCTCGGGCTGCAAGGACCTGCTGCTGCTGCTGCT 429
Db 383 GTGAGCTGCAATGTTGGAGGCTTCAATCTCGGGCTGCAAGGACCTGCTGCTGCTGCTGCT 442
Qy 430 ACTCCAGCTCTGCTCTCAATTTGCGCATCAACTTTTCAGAGCTATCATGAGCCAACTTCA 489
Db 443 ACTCCAGCTCTGCTCTCAATTTGCGCATCAACTTTTCAGAGCTATCATGAGCCAACTTCA 502
Qy 490 CCCACAGGGCTCAGTCGCCACCATGTGGCTCTCTCCAGTGCAACACCCAGGACTTCC 549
Db 503 CCCACAGGGCTCAGTCGCCACCATGTGGCTCTCTCCAGTGCAACACCCAGGACTTCC 562
Qy 550 ACCATGACCGGTTCACAGCTACAAATCCAGAGACCTCAATCTGCTGCTGCTGCTGCTGCT 609
Db 563 ACCATGACCGGTTCACAGCTACAAATCCAGAGACCTCAATCTGCTGCTGCTGCTGCTGCT 622
Qy 610 CAAGCACCCAGGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 669
Db 623 CAAGCACCCAGGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 682
Qy 670 GCCTCTGGCATTTAACTTACAGCATCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 729
Db 683 GCCTCTGGCATTTAACTTACAGCATCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 742

Db 23 GAAATCTGCTCTTCCACCATGAGGCTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTCTGCT 82
Qy 70 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGCGTCTGCTCCAGGCGCTGCTCAGG 129
Db 83 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGCGTCTGCTCCAGGCGCTGCTCAGG 142
Qy 130 CAGGAGAACAGGCTCTGCTGCGACCGAGTCCCTAGCCGCAACTCAACAACTCTGAAAGG 189
Db 143 CAGGAGAACAGGCTCTGCTGCGACCGAGTCCCTAGCCGCAACTCAACAACTCTGAAAGG 202
Qy 190 ACATCATGTGAGGCTCTGTAACCATGCAAGCTTGAGCGAGGCGCCCTTTGGGTGGT 249
Db 203 ACATCATGTGAGGCTCTGTAACCATGCAAGCTTGAGCGAGGCGCCCTTTGGGTGGT 262
Qy 250 GCCTGGGCACTCCACAGGTGTAGCTCTCCAAAGCAAGACTCCAGACAGCGGAGAAC 309
Db 263 GCCTGGGCACTCCACAGGTGTAGCTCTCCAAAGCAAGACTCCAGACAGCGGAGAAC 322
Qy 310 TCATGCTGGCACTGAGGTACCCAGAGCGCTCTGCTCTCCCTTTAGCCTTACAGCA 369
Db 323 TCATGCTGGCACTGAGGTACCCAGAGCGCTCTGCTCTCCCTTTAGCCTTACAGCA 382
Qy 370 GTGAGCTGCAATGTGGAGGCTTCATCTCGGGCTGCAAGGACCCCTGGGAAAGTTCCAGA 429
Db 383 GTGAGCTGCAATGTGGAGGCTTCATCTCGGGCTGCAAGGACCCCTGGGAAAGTTCCAGA 442
Qy 430 ACTCCAGCTCTTGTCTCAATTTGCGCATCAATCTTTCAGAGCTATCATAGCCCACTCA 489
Db 443 ACTCCAGCTCTTGTCTCAATTTGCGCATCAATCTTTCAGAGCTATCATAGCCCACTCA 502
Qy 490 CCCACAGGCGCTCAGTCCGCAACATGCGGCTCTCCAGTGCAAAACCCAGGCAATTC 549
Db 503 CCCACAGGCGCTCAGTCCGCAACATGCGGCTCTCCAGTGCAAAACCCAGGCAATTC 562
Qy 550 ACCATGACCGCTCAGTCCGCAACATGCGGCTCTCCAGTGCAAAACCCAGGCAATTC 609
Db 563 ACCATGACCGCTCAGTCCGCAACATGCGGCTCTCCAGTGCAAAACCCAGGCAATTC 622
Qy 610 CAAGCACCAGGCGTGTGACCAAGACTGCGAGAGTCTCTCCATCTTTCAGGTCCATTCA 669
Db 623 CAAGCACCAGGCGTGTGACCAAGACTGCGAGAGTCTCTCCATCTTTCAGGTCCATTCA 682
Qy 670 GCCTCTGGCAATTTAACTACAGCATCCAGTGGTCCCAAGGAATTCCTTCTAGCCTCC 729
Db 683 GCCTCTGGCAATTTAACTACAGCATCCAGTGGTCCCAAGGAATTCCTTCTAGCCTCC 742
Qy 730 TGACATGAGTCTGCTGGAAAGAGCATCCAAACAAAGTAATAAATAAATAAATAA 789
Db 743 TGACATGAGTCTGCTGGAAAGAGCATCCAAACAAAGTAATAAATAAATAAATAA 802
Qy 790 CA 791
Db 803 CA 804

RESULT 8

US-10-176-921-149
; Sequence 149 Application US/10176921
; Publication No. US20030027276A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Deanovers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P330R1C288
; CURRENT APPLICATION NUMBER: US/10/176,921
; PRIOR APPLICATION DATE: 2002-06-20
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-176-921-149

Query Match 97.0%; Score 782; DB 9; Length 804;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCTCTTCCACCATGAGGCTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTCTGCT 69
Db 23 GAAATCTGCTCTTCCACCATGAGGCTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTCTGCT 82
Qy 70 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCGTCTCTCCAAAGGCGCTGCTCAGG 129
Db 83 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCGTCTCTCCAAAGGCGCTGCTCAGG 142
Qy 130 CAGGAGAACAGGCTCTGCTGCGACCGAGTCCCTAGCCGCAACTCAACAACTCTGAAAGG 189
Db 143 CAGGAGAACAGGCTCTGCTGCGACCGAGTCCCTAGCCGCAACTCAACAACTCTGAAAGG 202
Qy 190 ACATCATGTGAGGCTCTGTAACCATGCAAGCTTGAGCGAGGCGCCCTTTGGGTGGT 249
Db 203 ACATCATGTGAGGCTCTGTAACCATGCAAGCTTGAGCGAGGCGCCCTTTGGGTGGT 262
Qy 250 GCCTGGGCACTCCACAGGTGTAGCTCTCCAAAGCAAGACTCCAGACAGCGGAGAAC 309
Db 263 GCCTGGGCACTCCACAGGTGTAGCTCTCCAAAGCAAGACTCCAGACAGCGGAGAAC 322
Qy 310 TCATGCTGGCACTGAGGTACCCAGAGCGCTCTGCTCTCCCTTTAGCCTTACAGCA 369
Db 323 TCATGCTGGCACTGAGGTACCCAGAGCGCTCTGCTCTCCCTTTAGCCTTACAGCA 382
Qy 370 GTGAGCTGCAATGTGGAGGCTTCATCTCGGGCTGCAAGGACCCCTGGGAAAGTTCCAGA 429
Db 383 GTGAGCTGCAATGTGGAGGCTTCATCTCGGGCTGCAAGGACCCCTGGGAAAGTTCCAGA 442
Qy 430 ACTCCAGCTCTTGTCTCAATTTGCGCATCAATCTTTCAGAGCTATCATAGCCCACTCA 489
Db 443 ACTCCAGCTCTTGTCTCAATTTGCGCATCAATCTTTCAGAGCTATCATAGCCCACTCA 502
Qy 490 CCCACAGGCGCTCAGTCCGCAACATGCGGCTCTCCAGTGCAAAACCCAGGCAATTC 549
Db 503 CCCACAGGCGCTCAGTCCGCAACATGCGGCTCTCCAGTGCAAAACCCAGGCAATTC 562
Qy 550 ACCATGACCGCTCAGTCCGCAACATGCGGCTCTCCAGTGCAAAACCCAGGCAATTC 609
Db 563 ACCATGACCGCTCAGTCCGCAACATGCGGCTCTCCAGTGCAAAACCCAGGCAATTC 622
Qy 610 CAAGCACCAGGCGTGTGACCAAGACTGCGAGAGTCTCTCCATCTTTCAGGTCCATTCA 669
Db 623 CAAGCACCAGGCGTGTGACCAAGACTGCGAGAGTCTCTCCATCTTTCAGGTCCATTCA 682
Qy 670 GCCTCTGGCAATTTAACTACAGCATCCAGTGGTCCCAAGGAATTCCTTCTAGCCTCC 729
Db 683 GCCTCTGGCAATTTAACTACAGCATCCAGTGGTCCCAAGGAATTCCTTCTAGCCTCC 742
Qy 730 TGACATGAGTCTGCTGGAAAGAGCATCCAAACAAAGTAATAAATAAATAAATAA 789
Db 743 TGACATGAGTCTGCTGGAAAGAGCATCCAAACAAAGTAATAAATAAATAAATAA 802

Qy 790 CA 791
||
Db 803 CA 804

RESULT 9

US-10-137-865-149
; Sequence 149, Application US/10137865
; Publication No. US20030032155A1
; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; TITLE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P330R1C154

; CURRENT APPLICATION NUMBER: US/10/137,865

; CURRENT FILING DATE: 2002-05-03

; Prior Application removed - See Palm or File Wrapper

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO 149

; LENGTH: 804

; TYPE: DNA

; ORGANISM: Homo Sapien

US-10-137-865-149

Query Match 97.0%; Score 782; DB 9; Length 804;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCTTCTCACCATGAGCTTCTAGTCTCTTTCCAGCTGCTCTGTATCTCTGCT 69

Db 23 GAAATCTGCTTCTCACCATGAGCTTCTAGTCTCTTTCCAGCTGCTCTGTATCTCTGCT 82

Qy 70 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCTGCAAGGCTGTGTCAGG 129

Db 83 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCTGCAAGGCTGTGTCAGG 142

Qy 130 CAGGAGAACCGAGCTCTGCTGCCACCGAGTCTCTAGTCCCTGAGCCCACTCAACAACTGAAAGG 189

Db 143 CAGGAGAACCGAGCTCTGCTGCCACCGAGTCTCTAGTCCCTGAGCCCACTCAACAACTGAAAGG 202

Qy 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGTGCT 249

Db 203 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGTGCT 262

Qy 250 GCCTGGGCACTCCACAGAGTGTAGCACTCCCAAGCAAGAGTCTCCAGACAGCGGAGAAC 309

Db 263 GCCTGGGCACTCCACAGAGTGTAGCACTCCCAAGCAAGAGTCTCCAGACAGCGGAGAAC 322

Qy 310 TCATGCTGGCACTGAGTACCCAGAGCTCTGTCTCCCTTTTCCAGCTTTCACAGCA 369

Db 323 TCATGCTGGCACTGAGTACCCAGAGCTCTGTCTCCCTTTTCCAGCTTTCACAGCA 382

Qy 370 GTGAGCTCCAATGTGGAGGCTTCATCTCGGCTGCAAGGACCTGGGAAGTTCACGA 429

Db 383 GTGAGCTCCAATGTGGAGGCTTCATCTCGGCTGCAAGGACCTGGGAAGTTCACGA 442

Qy 430 ACTCCACGCTCTGTCTCAATTGTGCCATCAACTTTTCAGAGCTATCATGAGCCACCTCA 489

Db 443 ACTCCACGCTCTGTCTCAATTGTGCCATCAACTTTTCAGAGCTATCATGAGCCACCTCA 502
||
Qy 490 CCCACAGGGCTCAGTCGCCACCATGTGGCCCTCTCCAGTGCAAAACCCGAGCATTC 549
||
Db 503 CCCACAGGGCTCAGTCGCCACCATGTGGCCCTCTCCAGTGCAAAACCCGAGCATTC 562
||
Qy 550 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTCTAGAGTGCAGGGTGG 609
||
Db 563 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTCTAGAGTGCAGGGTGG 622
||
Qy 610 CAAGCACCCAGGGTGTGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCATTC 669
||
Db 623 CAAGCACCCAGGGTGTGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCATTC 682
||
Qy 670 GCCTCTCGCATTTAACTTACGAGCATCCAGTGTGCTCCCAAGGATCCTCTTAGCCCTCC 729
||
Db 683 GCCTCTCGCATTTAACTTACGAGCATCCAGTGTGCTCCCAAGGATCCTCTTAGCCCTCC 742
||
Qy 730 TGACATGAGTCTGCTGGAAGAGAGCATCCAAACAAACAGTAATAATAATAATAAACT 789
||
Db 743 TGACATGAGTCTGCTGGAAGAGAGCATCCAAACAAACAGTAATAATAATAATAAACT 802
||
Qy 790 CA 791
||
Db 803 CA 804

RESULT 10

US-10-140-474-149

; Sequence 149, Application US/10140474

; Publication No. US20030032156A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; TITLE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P330R1C162

; CURRENT APPLICATION NUMBER: US/10/140,474

; CURRENT FILING DATE: 2002-05-06

; Prior Application removed - See Palm or File Wrapper

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO 149

; LENGTH: 804

; TYPE: DNA

; ORGANISM: Homo Sapien

US-10-140-474-149

Query Match 97.0%; Score 782; DB 9; Length 804;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCTTCTCACCATGAGCTTCTAGTCTCTTTCCAGCTGCTCTGTATCTCTGCT 69

Db 23 GAAATCTGCTTCTCACCATGAGCTTCTAGTCTCTTTCCAGCTGCTCTGTATCTCTGCT 82

Qy 70 TCTCTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCTGCAAGGCTGTGTCAGG 129

||

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Db 83 TCTGTGCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTCTCCAGGCTGTGCTCAGG 142
Qy 130 CAGGAGAACACAGGCTCTGTCTCCACCGAGTCCCTAGACCCCACTCAACAAACCTGAAAGG 189
Db 143 CAGGAGAACACAGGCTCTGTCTCCACCGAGTCCCTAGACCCCACTCAACAAACCTGAAAGG 202
Qy 190 ACATCATGTAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCGCCCTTTGGGTGGT 249
Db 203 ACATCATGTAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCGCCCTTTGGGTGGT 262
Qy 250 GCCTGGGGCACTCCACAGGCTGACACTCCCAAGCAAGACTCCAGACAGCGGAGAAC 309
Db 263 GCCTGGGGCACTCCACAGGCTGACACTCCCAAGCAAGACTCCAGACAGCGGAGAAC 322
Qy 310 TCATGCTGGCACTGAGGTACCCACAGGCTCTGTCTCCCTTTAGCCCTTTCACAGCA 369
Db 323 TCATGCTGGCACTGAGGTACCCACAGGCTCTGTCTCCCTTTAGCCCTTTCACAGCA 382
Qy 370 GTGAGCTGCAATGTGGAGGCTTCATCTCGGGCTGCAAGACCTCGGAAAGTTCCAGA 429
Db 383 GTGAGCTGCAATGTGGAGGCTTCATCTCGGGCTGCAAGACCTCGGAAAGTTCCAGA 442
Qy 430 ACTCCAGCTCTGTCTCAATGTGCCATCACTTTTCAGAGCTATCATGAGCCACCTCA 489
Db 443 ACTCCAGCTCTGTCTCAATGTGCCATCACTTTTCAGAGCTATCATGAGCCACCTCA 502
Qy 490 CCCACAGGCTCTGAGTGGCCACCATGTGGGCTCTCCAGTGCAAAACCCAGGAGCATTC 549
Db 503 CCCACAGGCTCTGAGTGGCCACCATGTGGGCTCTCCAGTGCAAAACCCAGGAGCATTC 562
Qy 550 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTGTGTAGAGTGCAGGGTGG 609
Db 563 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTGTGTAGAGTGCAGGGTGG 622
Qy 610 CAAGCACCAGGGTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCCATTCA 669
Db 623 CAAGCACCAGGGTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCCATTCA 682
Qy 670 GCCTCTGGCATTTAACTACCAGCATCCAGTGGTCCCAAGGAATCCCTTCTAGCCCTCC 729
Db 683 GCCTCTGGCATTTAACTACCAGCATCCAGTGGTCCCAAGGAATCCCTTCTAGCCCTCC 742
Qy 730 TGACATGAGTCTGTGGAAAGAGCATCCAAACAAAGTAATAATAATAATAAACT 789
Db 743 TGACATGAGTCTGTGGAAAGAGCATCCAAACAAAGTAATAATAATAATAAACT 802
Qy 790 CA 791
Db 803 CA 804
```

RESULT 11

```
US-10-142-431-149
; Sequence 149, Application US/10142431
; Publication No. US20030036179A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerriteen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
```

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; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P330R1C251
; CURRENT APPLICATION NUMBER: US/10/142,431
; CURRENT FILING DATE: 2002-05-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-142-431-149
```

Query Match 97.0%; Score 782; DB 9; Length 804;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 12
US-10-143-114-149
; Sequence 149, Application US/10143114
; Publication No. US20030036180A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C211
; CURRENT APPLICATION NUMBER: US/10/143,114
; CURRENT FILING DATE: 2002-05-09
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-143-114-149

Query Match      97.0%; Score 782; DB 9; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCTTTCACATGAGGCTTCTAGTCTCTTCCAGCTGCTCTGTATCTGCT 69
Db 23 GAAATCTGCTTTCACATGAGGCTTCTAGTCTCTTCCAGCTGCTCTGTATCTGCT 82
Qy 70 TCTCTGCTTCTCCATCTTCCACAGAGGAGGAGGCTCTGCTCCAGGCTGTGTGAGG 129
Db 83 TCTCTGCTTCTCCATCTTCCACAGAGGAGGAGGCTCTGCTCCAGGCTGTGTGAGG 142
Qy 130 CAGGAGAACCGGCTCTGCTGCCAGGAGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 189
Db 143 CAGGAGAACCGGCTCTGCTGCCAGGAGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 202
Qy 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCCCGCTTTGGGTGGT 249
Db 203 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCCCGCTTTGGGTGGT 262
Qy 250 GCCTGGGGCACTCCACACAGGTGTACACTCCCAAGAGAGAGTCCAGACGGGAGAAC 309
Db 263 GCCTGGGGCACTCCACACAGGTGTACACTCCCAAGAGAGAGTCCAGACGGGAGAAC 322
Qy 310 TCATGCTTGGGACCTCCAGAGTACCCAGAGCTCTGCTCTCCCTTTTACGCTTTCACAGCA 369
Db 323 TCATGCTTGGGACCTCCAGAGTACCCAGAGCTCTGCTCTCCCTTTTACGCTTTCACAGCA 382
Qy 370 GTGAGCTGCAATTTGGAGGGCTTCATCTCGGGCTGCAAGAGCCCTCGGAAAGTTCCAGA 429
Db 383 GTGAGCTGCAATTTGGAGGGCTTCATCTCGGGCTGCAAGAGCCCTCGGAAAGTTCCAGA 442
Qy 430 ACTCCAGCTCTGTCTCAATTTGGCCATCTACCTTTTACAGAGCTATCATGAGCCACCTCA 489
Db 443 ACTCCAGCTCTGTCTCAATTTGGCCATCTACCTTTTACAGAGCTATCATGAGCCACCTCA 502
Qy 490 CCCCACAGGGCTCAGTGCACCATGTGGGCTCTCTCCAGTGCACAAACCCGAGCATTTCC 549
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Db 503 CCCACAGGGCTCAGTCGCGCCATGTGGGCTCTCCAGTGCACAAACCCGAGCATTC 562
Qy 550 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTCTAGAGTGCAGGGTGG 609
Db 563 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTCTAGAGTGCAGGGTGG 622
Qy 610 CAAGCACCCCAAGGGTGGCTGACCAAGACTGCAGAGTCTCTCCCATCTTTCAGGTCCATTCA 669
Db 623 CAAGCACCCCAAGGGTGGCTGACCAAGACTGCAGAGTCTCTCCCATCTTTCAGGTCCATTCA 682
Qy 670 GCCTCTGGCATTTAACTACCAAGCATCCAGTGTGTCCTCCAGGAATCCCTTCTAGCTTCC 729
Db 683 GCCTCTGGCATTTAACTACCAAGCATCCAGTGTGTCCTCCAGGAATCCCTTCTAGCTTCC 742
Qy 730 TGACATGAGTCTGCTGAAAAGAGCATCCAAACAACAGTAATAAATAAATAAATAA 789
Db 743 TGACATGAGTCTGCTGAAAAGAGCATCCAAACAACAGTAATAAATAAATAAATAA 802
Qy 790 CA 791
Db 803 CA 804

RESULT 13
US-10-140-002-149
; Sequence 149, Application US/10140002
; Publication No. US20030037623A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C59
; CURRENT APPLICATION NUMBER: US/10/140,002
; CURRENT FILING DATE: 2002-05-06
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-140-002-149

Query Match      97.0%; Score 782; DB 9; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCTTTCACATGAGGCTTCTAGTCTCTTCCAGCTGCTCTGTATCTGCT 69
Db 23 GAAATCTGCTTTCACATGAGGCTTCTAGTCTCTTCCAGCTGCTCTGTATCTGCT 82
Qy 70 TCTCTGCTTCTCCATCTTCCACAGAGGAGGAGGCTCTGCTCCAGGCTGTGTGAGG 129
Db 83 TCTCTGCTTCTCCATCTTCCACAGAGGAGGAGGCTCTGCTCCAGGCTGTGTGAGG 142
Qy 130 CAGGAGAACCGGCTCTGCTGCCAGGAGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 189
Db 143 CAGGAGAACCGGCTCTGCTGCCAGGAGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 202
Qy 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCCCGCTTTGGGTGGT 249
Db 203 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCCCGCTTTGGGTGGT 262
Qy 250 GCCTGGGGCACTCCACACAGGTGTACACTCCCAAGAGAGAGTCCAGACGGGAGAAC 309
Db 263 GCCTGGGGCACTCCACACAGGTGTACACTCCCAAGAGAGAGTCCAGACGGGAGAAC 322
Qy 310 TCATGCTTGGGACCTCCAGAGTACCCAGAGCTCTGCTCTCCCTTTTACGCTTTCACAGCA 369
Db 323 TCATGCTTGGGACCTCCAGAGTACCCAGAGCTCTGCTCTCCCTTTTACGCTTTCACAGCA 382
Qy 370 GTGAGCTGCAATTTGGAGGGCTTCATCTCGGGCTGCAAGAGCCCTCGGAAAGTTCCAGA 429
Db 383 GTGAGCTGCAATTTGGAGGGCTTCATCTCGGGCTGCAAGAGCCCTCGGAAAGTTCCAGA 442
Qy 430 ACTCCAGCTCTGTCTCAATTTGGCCATCTACCTTTTACAGAGCTATCATGAGCCACCTCA 489
Db 443 ACTCCAGCTCTGTCTCAATTTGGCCATCTACCTTTTACAGAGCTATCATGAGCCACCTCA 502
Qy 490 CCCCACAGGGCTCAGTGCACCATGTGGGCTCTCTCCAGTGCACAAACCCGAGCATTTCC 549
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Db 143 CAGGAGAACAGGCTCTGCTGCCACGAGTCCCTAGAGCCCACTCAACAAACCTGAAAGG 202
Qy 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCGCCCTTTGGGTGGT 249
Db 203 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCGCCCTTTGGGTGGT 262
Qy 250 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGAGAGACTCCAGACGGGAGAAC 309
Db 263 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGAGAGACTCCAGACGGGAGAAC 322
Qy 310 TCATGCTGGCACTGAGGTAGGATCCCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 369
Db 323 TCATGCTGGCACTGAGGTAGGATCCCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 382
Qy 370 GTGAGCTGCAATGTGGAGGCTTCATCTCGGGGTGCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 429
Db 383 GTGAGCTGCAATGTGGAGGCTTCATCTCGGGGTGCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 442
Qy 430 ACTCCAGCTCTGCTCAATGTGGAGGCTTCATCTCGGGGTGCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 489
Db 443 ACTCCAGCTCTGCTCAATGTGGAGGCTTCATCTCGGGGTGCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 502
Qy 490 CCCACAGGGCTCAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 549
Db 503 CCCACAGGGCTCAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 562
Qy 550 ACCATGACGGGTGAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 609
Db 563 ACCATGACGGGTGAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 622
Qy 610 CAGGACCCAGGGGTGAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 669
Db 623 CAGGACCCAGGGGTGAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 682
Qy 670 GCCTCTGGCATTTAACTACAGCATCCAGTGGTCCCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 729
Db 743 TGACATGAGTCTGCTGGAAAGAGCATCCAAACCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 802
Qy 790 CA 791
Db 803 CA 804

RESULT 14

US-10-142-419-149
; Sequence 149, Application US/10142419
; Publication No. US20030044945A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C244
; CURRENT APPLICATION NUMBER: US/10/142.419

; CURRENT FILING DATE: 2002-05-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 149
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-142-419-149

Query Match 97.0%; Score 782; DB 9; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 10 GAAATCTGCTTCTCCATCTTCCACATGAGGCTTCTAGTCTTTCAGGCTGTCTGTATTCCTGCT 69
Db 23 GAAATCTGCTTCTCCATGAGGCTTCTAGTCTTTCAGGCTGTCTGTATTCCTGCT 82
Qy 70 TCTCTGCTTCTCCATCTTCCACAGAGGAGAGAGGCTTCTGCAAGGCTTCTGCAAGGCTTCTGTCAGG 129
Db 83 TCTCTGCTTCTCCATCTTCCACAGAGGAGAGAGGCTTCTGCAAGGCTTCTGTCAGG 142
Qy 130 CAGGAGAACAGGCTTCTGCTGCCACCGAGTCCCTAGGCCCAACTCAACAAACCTGAAAGG 189
Db 143 CAGGAGAACAGGCTTCTGCTGCCACCGAGTCCCTAGGCCCAACTCAACAAACCTGAAAGG 202
Qy 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTTGAGCCAGAGCCCGCTTTGGGTGGT 249
Db 203 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTTGAGCCAGAGCCCGCTTTGGGTGGT 262
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Qy 430 ACTCCAGCTCTGCTCAATTTGAGGCTTTCATCTCGGGCTGCAAGAGAGACTCCGGAAGTTCCAGA 489
Db 443 ACTCCAGCTCTGCTCAATTTGAGGCTTTCATCTCGGGCTGCAAGAGAGACTCCGGAAGTTCCAGA 502
Qy 490 CCCACAGGGCTCAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 549
Db 503 CCCACAGGGCTCAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 562
Qy 550 ACCATGACGGGTGAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 609
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Qy 610 CAGGACCCAGGGGTGAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 669
Db 623 CAGGACCCAGGGGTGAGTCCGACCATGTGGGCTCTCCAGTGCAAAACCAACCGAGCATTC 682
Qy 670 GCCTCTGGCATTTAACTACAGCATCCAGTGGTCCCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 729
Db 683 GCCTCTGGCATTTAACTACAGCATCCAGTGGTCCCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 742
Qy 730 TGACATGAGTCTGCTGGAAAGAGCATCCAAACCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 789
Db 743 TGACATGAGTCTGCTGGAAAGAGCATCCAAACCAAGAGAGACTCCCAAGAGAGACTCCAGACGGGAGAAC 802
Qy 790 CA 791
Db 803 CA 804

RESULT 15

US-10-123-262-149
; Sequence 149, Application US/10123262

; Publication No. US20030049816A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P3330R1C38

; CURRENT APPLICATION NUMBER: US/10/123,262

; CURRENT FILING DATE: 2002-04-15

; Prior Application removed - See File Wrapper or Palm

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO 149

; LENGTH: 804

; TYPE: DNA

; ORGANISM: Homo Sapien

US-10-123-262-149

Query Match 97.0%; Score 782; DB 9; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCTCTTCCACATGAGGCTTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTCTGCT 69

Db 23 GAAATCTGCTCTTCCACATGAGGCTTTCTAGTCTCTTTCCAGCCTGCTCTGTATCTCTGCT 82

Qy 70 TCTCTGCTTCTCCATCTTCTCCACAGAAGGAAGGCGTCTGCGCAAGGCTGTGTCAGG 129

Db 83 TCTCTGCTTCTCCATCTTCTCCACAGAAGGAAGGCGTCTGCGCAAGGCTGTGTCAGG 142

Qy 130 CAGGAGAACCGGCTCTGCTCCACCGAGTCCCTAGCCCACTCAACAAACCTGAAGG 189

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Qy 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCGAGGCGCCGCTTTGGGTGGT 249

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Qy 250 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAAC 309

Db 263 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAAC 322

Qy 310 TCATGCTGGCACTGAGTACCCAGAGCCTCTGCTCTCCCTTTAGCCCTTACAGCA 369

Db 323 TCATGCTGGCACTGAGTACCCAGAGCCTCTGCTCTCCCTTTAGCCCTTACAGCA 382

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Db 503 CCCACAGGGGCTCAGTCCGACCATGTGGGCTCTCCAGTGCACCAACCGAGCATTC 562

Qy 550 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTCTGTAGAGTGCAGGGTGG 609

Db 563 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTCTGTAGAGTGCAGGGTGG 622

Qy 610 CAAGCACCCCAAGGGTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCCAGGTCCATTCA 669

Db 623 CAAGCACCCCAAGGGTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCCAGGTCCATTCA 682

Qy 670 GCCTCTGGGCAATTTAACTTACCAGCATCCAGTGGTCCCAAGGAATCCCTTCTAGCCTCC 729

Db 683 GCCTCTGGGCAATTTAACTTACCAGCATCCAGTGGTCCCAAGGAATCCCTTCTAGCCTCC 742

Qy 730 TGACATGAGTCTGCTGGAAGAGAGCATCCAAACAAAGTAATAATAATAATAAACT 789

Db 743 TGACATGAGTCTGCTGGAAGAGAGCATCCAAACAAAGTAATAATAATAATAAACT 802

Qy 790 CA 791

Db 803 CA 804

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Job time : 121 secs

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: May 17, 2003, 11:55:46 ; Search time 2635 Seconds
(without alignments)
8902.035 Million cell updates/sec

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Gapop 60.0 , Gapext 60.0

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Word size : 0

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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10: gb_ro.*

11: gb_sts.*

12: gb_sy.*

13: gb_un.*

14: gb_vi.*

15: em_ba.*

16: em_fun.*

17: em_hum.*

18: em_in.*

19: em_mu.*

20: em_on.*

21: em_or.*

22: em_ov.*

23: em_pat.*

24: em_ph.*

25: em_pl.*

26: em_ro.*

27: em_sts.*

28: em_un.*

29: em_vi.*

30: em_htg_hum.*

31: em_htg_inv.*

32: em_htg_other.*

33: em_htg_mus.*

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35: em_htg_rod.*

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37: em_htg_vrt.*

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41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	806	100.0	806	6	AX342218	Sequence
2	782	97.0	804	6	AX464016	Sequence
3	616	76.4	198481	9	AC022389	Homo sapi
4	537	66.6	801	6	AX027767	Sequence
5	498	61.8	797	6	AX027773	Sequence
6	480	59.6	2063	9	AX025416	Homo sapi
7	323	40.1	485	6	AX351259	Sequence
8	299	37.1	382	6	AX340424	Sequence
9	196	24.3	366	6	AX330090	Sequence
10	196	24.3	366	6	AX335580	Sequence
11	196	24.3	366	6	AX408291	Sequence
12	93	11.5	4159	6	AX342222	Sequence
13	27	3.3	180176	10	AL671190	Mouse DNA
14	25	3.1	93165	9	AL357974	Human DNA
15	25	3.1	152245	2	AC022829	Homo sapi
16	25	3.1	153311	2	AC107297	Homo sapi
17	25	3.1	172043	9	AC078828	Homo sapi
18	25	3.1	193903	2	AC091156	Homo sapi
19	25	3.1	198057	2	AC073719	Mus muscu
20	25	3.1	231443	2	AC073691	Mus muscu
21	25	3.1	246962	2	AC073811	Mus muscu
22	24	3.0	94737	2	AC126011	Medicago
23	24	3.0	144818	9	AL139343	Human DNA
24	24	3.0	157758	9	AC098824	Homo sapi
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26	24	3.0	165114	2	AC098323	Rattus no
27	24	3.0	174194	2	AL845359	Danio rer
28	24	3.0	180718	2	AL844538	Mus muscu
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31	24	3.0	215516	2	AC024694	Mus muscu
32	24	3.0	221647	10	AL591003	Mouse DNA
33	24	3.0	224446	2	AC122109	Mus muscu
34	23	2.9	7355	6	AX344889	Sequence
35	23	2.9	57276	2	AC124271	Homo sapi
36	23	2.9	57276	2	AC124271	Homo sapi
37	23	2.9	59438	2	AC090314	Homo sapi
38	23	2.9	64886	2	AC101145	Mus muscu
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40	23	2.9	66969	9	AL161789	Human DNA
41	23	2.9	72259	2	AC100677	Mus muscu
42	23	2.9	76396	2	AC012995	Drosophil
43	23	2.9	80922	2	AC097830	Rattus no
44	23	2.9	86945	2	AC002490	Homo sapi
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ALIGNMENTS

RESULT 1	AX342218	Sequence 4 from Patent WO0198497.	806 bp	DNA	linear	PAT 12-JAN-2002
LOCUS	AX342218	Sequence 4 from Patent WO0198497.				
DEFINITION	AX342218	Sequence 4 from Patent WO0198497.				
ACCESSION	AX342218	Sequence 4 from Patent WO0198497.				
VERSION	AX342218.1	GI:18151763				
KEYWORDS	human.					
SOURCE	human.					
ORGANISM	Homo sapiens					
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.					
REFERENCE	1					
AUTHORS	Polverino, A.J. and Luethy, R.					
TITLE	Secreted epithelial colon stromal-1 polypeptides, nucleic acids encoding the same and uses thereof					

JOURNAL Patent: WO 0198497-A 4 27-DEC-2001;
Amgen, Inc. (US)

FEATURES
source Location/Qualifiers
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/db_xref="GI:18151764"
/translation="MRLLVSSLLCILLCFISFTEGKRRPAKWSGRTRLCCHRV
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BASE COUNT 207 a 257 c 179 g 163 t
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Query Match 100.0%; Score 806; DB 6; Length 806;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 806; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGNAGAGGGAATCTGCTTCTCACCATGAGGCTTCTAGTCTTTCCAGCCTGCTGTG 60
Db 1 GGAACGAGGGAATCTGCTTCTCACCATGAGGCTTCTAGTCTTTCCAGCCTGCTGTG 60

Qy 61 TATCTGCTTCTGCTTCTCCTCTCTCCACAGAGGAGGCGTCTGCTCCAGGC 120
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Qy 181 CCTGAAGACATCATGTAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCGCT 240
Db 181 CCTGAAGACATCATGTAGGCTCTGTAAACCATGCAAGCTTGAGCCAGAGCCCGCT 240

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Qy 781 AAATAAACTCAATGCAGACACAAAA 806
Db 781 AAATAAACTCAATGCAGACACAAAA 806

RESULT 2
AX464016 804 bp DNA linear PAT 16-JUL-2002
LOCUS Sequence 149 from Patent WO0140466.
DEFINITION AX464016
ACCESSION AX464016
VERSION AX464016.1 GI:21899025
KEYWORDS human.
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS Baker, K.P., Beresini, M., Deforge, L., Desnoyers, L., Filvaroff, E.,
Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,
Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Wood, W.L. and Zhang, Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
same
JOURNAL Patent: WO 0140466-A 149 07-JUN-2001;
Genentech Inc. (US)
FEATURES
source Location/Qualifiers
1..804
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 199 a 263 c 176 g 166 t
ORIGIN

Query Match 97.0%; Score 782; DB 6; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCTTCTCACCATGAGGCTTCTAGTCTTTCCAGCCTGCTGTATCTCTGCT 69
Db 23 GAAATCTGCTTCTCACCATGAGGCTTCTAGTCTTTCCAGCCTGCTGTATCTCTGCT 82

Qy 70 TCTCTGCTTCTCCTATCTTCCACAGAGGAGAGGCTCTGCTCCAAAGGCTCTGGTCAGG 129
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Qy 130 CAGGAGAACCAAGGCTCTGCTGCCACCGAGTCCCTAGCCCAACTCAACAACTGAAAGG 189
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Qy 190 ACATCATGTGAGGCTCTGTAAACCATGAGCTTGAGCCAGAGCCCGCTTTGGGTGGT 249
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Db 323 TCATGCTGGCACTGAGTACCCAGCAGCTCTCTGTCTCCCTTTGAGCTTCCACAGCA 382

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Db 383 GTGAGCTGCAATGTGAGGCTTTCATCTCGGCTGCAAGGACCTCGGAAAGTTCCAGA 442

Qy 430 ACTCCAGCTCTGTCTCAATGTGCGCATCACTTTTTCAGAGCTATCATGAGCCAACTCA 489
Db 443 ACTCCAGCTCTGTCTCAATGTGCGCATCACTTTTTCAGAGCTATCATGAGCCAACTCA 502

Qy 490 CCCCACAGGGCTCAGTCGCCACCATGTGGCTCTCCAGTGCAACACCGAGCATTC 549
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Db 563 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTGCTAGAGTGCAGGGTGG 622
Qy 610 CAAGCACCAAGGTGGTGCAGAGACTGCAGAGTCTCTCCCATCTTTCAGGTCCATTCA 669
Db 623 CAAGCACCAAGGTGGTGCAGAGACTGCAGAGTCTCTCCCATCTTTCAGGTCCATTCA 682
Qy 670 GCCTCTGGGCAATTAATACACAGATCCAGTGGTCCCAAGGAATCCCTTCTAGCTCC 729
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Qy 730 TGACATGAGTCTGCTGGGAAGAGCATCCAAACAACAGTAGTAATAATAATAAACT 789
Db 743 TGACATGAGTCTGCTGGGAAGAGCATCCAAACAACAGTAGTAATAATAATAAACT 802
Qy 790 CA 791
Db 803 CA 804

RESULT 3
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LOCUS Homo sapiens chromosome 10 clone RP11-124L5, complete sequence.
DEFINITION AC022389
ACCESSION AC022389.9 GI:21321764
VERSION HTG.
KEYWORDS SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 198481)
AUTHORS Smith, D.R.
TITLE Genome Therapeutics Corporation Sequencing Center: Human Genome
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 198481)
AUTHORS Smith, D.R.
TITLE Direct Submission
JOURNAL Submitted (03-FEB-2000) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 3 (bases 1 to 198481)
AUTHORS Smith, D.R.
TITLE Direct Submission
JOURNAL Submitted (02-MAR-2002) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 4 (bases 1 to 198481)
AUTHORS Smith, D.R.
TITLE Direct Submission
JOURNAL Submitted (04-JUN-2002) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 5 (bases 1 to 198481)
AUTHORS Smith, D.R.
TITLE Direct Submission
JOURNAL Submitted (08-JUN-2002) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 6 (bases 1 to 198481)
AUTHORS Smith, D.R.
TITLE Direct Submission
JOURNAL Submitted (21-JUN-2002) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
REFERENCE 7 (bases 1 to 198481)
AUTHORS Smith, D.R.
TITLE Direct Submission
JOURNAL Submitted (04-JUL-2002) Genome Therapeutics Corporation, 100 Beaver
Street, Waltham, MA 02453, USA
COMMENT On Jun 4, 2002 this sequence version replaced gi:19071578.
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Matches 616; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 43093 AGGACATCATGTGAGGCTCTGTAAACCATGCAAGCTTTGAGCCAGAGCCCGCCTTTGGGT 43152
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Db 43153 GGTGCTCTGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACGCGGAGA 43212
Qy 307 ACCTCATGCTGGCACCCTGAGGTACCCAGAGGCTCTGTCTCCCTTTGAGCCTTCACA 366
Db 43213 ACCTCATGCTGGCACCCTGAGGTACCCAGAGGCTCTGTCTCCCTTTGAGCCTTCACA 43272
Qy 367 GCAGTGAAGCTGCAATGTTGAGGGCTTTCATCTCGGGCTGCAAGGACCTCGGAAAGTTCC 426
Db 43273 GCAGTGAAGCTGCAATGTTGAGGGCTTTCATCTCGGGCTGCAAGGACCTCGGAAAGTTCC 43332
Qy 427 AGAATCCAGCTCTCTGCTCAATTGTGCCATCACTTTTCAGAGCTATCATGAGCCAAAC 486
Db 43333 AGAATCCAGCTCTCTGCTCAATTGTGCCATCACTTTTCAGAGCTATCATGAGCCAAAC 43392
Qy 487 TCACCCACAGGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGCAAAACCCAGGAGCAT 546
Db 43393 TCACCCACAGGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGCAAAACCCAGGAGCAT 43452
Qy 547 TCACCATGACCCGCTCACAGCTACAAATCCAGAGACCATCAATCCTGCTAGAGTGCAGGG 606
Db 43453 TCACCATGACCCGCTCACAGCTACAAATCCAGAGACCATCAATCCTGCTAGAGTGCAGGG 43512
Qy 607 TGGCAAGCACCCAGGGTGGCTGACCAAGACTGTCAGAGTCTCTCCATCTTTCAGGTCCAT 666
Db 43513 TGGCAAGCACCCAGGGTGGCTGACCAAGACTGTCAGAGTCTCTCCATCTTTCAGGTCCAT 43572
Qy 667 TCAGCTCTCTGGGCAATTAATACAGGCTGTCAGAGTCTCTCCATCTTTCAGGTCCAT 726
Db 43573 TCAGCTCTCTGGGCAATTAATACAGGCTGTCAGAGTCTCTCCATCTTTCAGGTCCAT 43632
Qy 727 TCCTGACATGAGTCTGCTGAAAGAGCATCCAAACAACAGTAATAATAATAATAATAA 786
Db 43633 TCCTGACATGAGTCTGCTGAAAGAGCATCCAAACAACAGTAATAATAATAATAATAA 43692
Qy 787 ACTCAATGCAGACACA 802
Db 43693 ACTCAATGCAGACACA 43708

RESULT 4
AX027767/c 801 bp DNA linear PAT 16-SEP-2000
LOCUS Sequence 1 from Patent WO0043509.
DEFINITION AX027767
ACCESSION AX027767
VERSION AX027767.1 GI:10188619
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 801)
AUTHORS Vinals-Basols, C.
TITLE Novel compounds
JOURNAL Patent: WO 0043509-A 1 27-JUL-2000;
SMITHKLINE BEECHAM BIOLOG (BE) ; VINALS BASSOLS CARLOTA (BE)
FEATURES
source location/Qualifiers
1..801
/db_xref="taxon:9606"
/organism="Homo sapiens"
/db_xref="taxon:9606"
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BASE COUNT 165 a 181 c 255 g 200 t

ORIGIN

Query Match 66.6%; Score 537; DB 6; Length 801;
Best Local Similarity 100.0%; Pred. No. 1.3e-312;
Matches 537; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 261 TCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAACTTCATGCTGGC 320
Db 537 TCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAACTTCATGCTGGC 478

Qy 321 ACCTGAGGTACCCAGACGCTCTGTCTCCCTTTTACAGCTTCACAGAGTGCAG 380
Db 477 ACCTGAGGTACCCAGACGCTCTGTCTCCCTTTTACAGCTTCACAGAGTGCAG 418

Qy 381 TGTGGAGGGCTTCACTCTGGGCTGCAAGGACCTGGGAAAGTTCCAGAACTCCACGTC 440
Db 417 TGTGGAGGGCTTCACTCTGGGCTGCAAGGACCTGGGAAAGTTCCAGAACTCCACGTC 358

Qy 441 TTGTCTCAATTGTGCATCAACTTTTCAGAGTATCATGAGCCAACTCCACCCACAGG 500
Db 357 TTGTCTCAATTGTGCATCAACTTTTCAGAGTATCATGAGCCAACTCCACCCACAGG 298

Qy 501 CTCAGTCCGCCACCATGTGGGCTCTCCAGTGCAGGACCAACCGAGCATTCACCATGAC 560
Db 297 CTCAGTCCGCCACCATGTGGGCTCTCCAGTGCAGGACCAACCGAGCATTCACCATGAC 238

Qy 561 TCACAGCTACAAATCCAGAGACCATCAATCTGTAGAGTGCAGGTTGGGAGGACCCAA 620
Db 237 TCACAGCTACAAATCCAGAGACCATCAATCTGTAGAGTGCAGGTTGGGAGGACCCAA 178

Qy 621 GGTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCCATTCAGGCTCTCTG 680
Db 177 GGTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCCATTCAGGCTCTCTG 118

Qy 681 TTTAACTACCAAGCTCCAGTGGTCCCCAAGGAATCCCTTCTAGCTCTCTGACATGATC 740
Db 117 TTTAACTACCAAGCTCCAGTGGTCCCCAAGGAATCCCTTCTAGCTCTCTGACATGATC 58

Qy 741 TGCTGGAAGAGCATCCAAACAAACAGTAATAATAATAATAATAATAATAATAATG 797
Db 57 TGCTGGAAGAGCATCCAAACAAACAGTAATAATAATAATAATAATAATAATAATG 1

RESULT 5
AX027773/c

LOCUS AX027773 797 bp DNA linear PAT 16-SEP-2000

DEFINITION Sequence 7 from Patent WO0043509.

ACCESSION AX027773

VERSION AX027773.1 GI:10188625

KEYWORDS human.

SOURCE

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 797)
Vinals-Bassols,C.
Novel compounds
Patent: WO 0043509-A 7 27-JUL-2000;
SMITHKLINE BEECHAM BIOLOG (BE) ; VINALS BASSOLS CARLOTA (BE)

FEATURES
Location/Qualifiers
source 1..797
/organism="Homo sapiens"
/db_xref="taxon:9606"

BASE COUNT 164 a 180 c 254 g 199 t

ORIGIN

Query Match 61.8%; Score 498; DB 6; Length 797;
Best Local Similarity 100.0%; Pred. No. 5.1e-289;
Matches 498; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 261 TCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAACTTCATGCTGGC 320

Db 533 TCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAACTTCATGCTGGC 474

Qy 321 ACCTGAGGTACCCAGACGCTCTGTCTCCCTTTTACAGCTTCACAGAGTGCAGTCAA 380

Db 473 ACCTGAGGTACCCAGACGCTCTGTCTCCCTTTTACAGCTTCACAGAGTGCAGTCAA 414

Qy 381 TGTGGAGGGCTTCATCTCGGGCTGCAAGGACCTGGGAAAGTTCCAGAACTCCACGTC 440

Db 413 TGTGGAGGGCTTCATCTCGGGCTGCAAGGACCTGGGAAAGTTCCAGAACTCCACGTC 354

Qy 441 TTGTCTCAATTGTGCCATCAACTTTTCAGAGTATCATGAGCAACCTTCACCCACAGG 500

Db 353 TTGTCTCAATTGTGCCATCAACTTTTCAGAGTATCATGAGCAACCTTCACCCACAGG 294

Qy 501 CTGAGTCGCCACCATGTGGGCTCTCCAGTGCAGGACCAACCGAGCATTCACCATGAC 560

Db 293 CTGAGTCGCCACCATGTGGGCTCTCCAGTGCAGGACCAACCGAGCATTCACCATGAC 234

Qy 561 TCACAGCTACAAATCCAGAGACCATCAATCTGTAGAGTGCAGGTTGGGAGGACCCAA 620

Db 233 TCACAGCTACAAATCCAGAGACCATCAATCTGTAGAGTGCAGGTTGGGAGGACCCAA 174

Qy 621 GGTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCCATTCAGCTCTCTG 680

Db 173 GGTGGCTGACCAAGACTGCAGAGTCTCTCCATCTTCAGGTCCATTCAGCTCTCTG 114

Qy 681 TTTAACTACCAAGCTCCAGTGGTCCCCAAGGAATCCCTTCTAGCTCTCTGACATGATC 740

Db 113 TTTAACTACCAAGCTCCAGTGGTCCCCAAGGAATCCCTTCTAGCTCTCTGACATGATC 54

Qy 741 TGCTGGAAGAGCATCCA 758

Db 53 TGCTGGAAGAGCATCCA 36

RESULT 6
AK025416

LOCUS AK025416 2063 bp mRNA linear PRI 29-SEP-2000

DEFINITION Homo sapiens cDNA: FLJ21763 fis, clone COLF6967.

ACCESSION AK025416

VERSION AK025416.1 GI:10437924

KEYWORDS oligo capping; fis (full insert sequence).

SOURCE Homo sapiens colon mucosa cDNA to mRNA, clone lib:ColF clone:COLF6967.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (sites)
Watanabe,K., Kumagai,A., Itakura,S., Yamazaki,M., Tashiro,H.,
Ota,T., Suzuki,Y., Obayashi,M., Nishi,T., Shibahara,T., Tanaka,T.,
Nakamura,Y., Isogai,T. and Sugano,S.
NEDO human cDNA sequencing project

TITLE Unpublished
JOURNAL 2 (bases 1 to 2063)
REFERENCE Sugano,S., Suzuki,Y., Ota,T., Obayashi,M., Nishi,T., Isogai,T.,
Shibahara,T., Tanaka,T. and Nakamura,Y.
Direct Submission
JOURNAL Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science,
University of Tokyo, Laboratory of Genome Structure Analysis, Human
Genome Center, Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639,
Japan (E-mail:cdna@ims.u-tokyo.ac.jp, Tel:81-3-5449-5286,
Fax:81-3-5449-5416)
HEDO human cDNA sequencing project supported by Ministry of
International Trade and Industry of Japan; cDNA full insert
sequencing; Research Association for Biotechnology; cDNA library
construction, 5'- & 3'-end one pass sequencing; Department of
Virology and Human Genome Center, Institute of Medical Science,
University of Tokyo (partly supported by Science and Technology
Agency).

FEATURES
Location/Qualifiers
source 1..2063
/organism="Homo sapiens"
/db_xref="taxon:9606"

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/clone="COLF6967"
/tissue_type="colon mucosa"
/clone_lib="Colf"
/note="cloning vector pME18SFL3"
BASE COUNT      536 a  479 c  476 g  572 t
ORIGIN

Query Match      59.6%; Score 480; DB 9; Length 2063;
Best Local Similarity 100.0%; Pred. No. 4e-278;
Matches 480; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCCTTCTCACCATGAGGCTTCTAGTCCCTTTCCAGCGCTCTCTGATTCCTGCT 69
Db 96 GAAATCTGCCTTCTCACCATGAGGCTTCTAGTCCCTTTCCAGCGCTCTCTGATTCCTGCT 155
Qy 70 TCTCTGCTTCTCCATCTTCTCCACAGAAGGAAGGCGTCTGTCACCAAGGCTTGTCAGG 129
Db 156 TCTCTGCTTCTCCATCTTCTCCACAGAAGGAAGGCGTCTGTCACCAAGGCTTGTCAGG 215
Qy 130 CAGGAGAACCAAGGCTCTGCTGCCACCGAGTCCCTAGACCCCAACTCAACAAACCTGAAAGG 189
Db 216 CAGGAGAACCAAGGCTCTGCTGCCACCGAGTCCCTAGACCCCAACTCAACAAACCTGAAAGG 275
Qy 190 ACATCATGTGAGGCTCTGTAACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGGTGGT 249
Db 276 ACATCATGTGAGGCTCTGTAACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGGTGGT 335
Qy 250 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACGCGGAGAAC 309
Db 336 GCCTGGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACGCGGAGAAC 395
Qy 310 TCATGCTGGCACTGAGTACCCAGCAGCTCTGCTGCTCCCTTTACGCTTCCACAGCA 369
Db 396 TCATGCTGGCACTGAGTACCCAGCAGCTCTGCTGCTCCCTTTACGCTTCCACAGCA 455
Qy 370 GTGAGCTCAATGTGGAGGCTTCATCTCGGCTGCAAGACCTGGGAAGTCCAGA 429
Db 456 GTGAGCTCAATGTGGAGGCTTCATCTCGGCTGCAAGACCTGGGAAGTCCAGA 515
Qy 430 ACTCCAGCTCTGCTCAATGTGGCAATCACTTTCAGAGCTATCATGAGCAACCTCA 489
Db 516 ACTCCAGCTCTGCTCAATGTGGCAATCACTTTCAGAGCTATCATGAGCAACCTCA 575

RESULT 7
AX351259
LOCUS      AX351259      485 bp      DNA      linear      PAT 06-FEB-2002
DEFINITION Sequence 6 from Patent WO0196390.
ACCESSION  AX351259
VERSION     AX351259.1  GI:18616606
KEYWORDS
SOURCE      human.
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE   1
AUTHORS     Jiang, Y., Hepler, W.T., Clapper, J.D., Wang, A. and Secrist, H.
TITLE       Compositions and methods for the therapy and diagnosis of colon
            cancer
JOURNAL     Patent: WO 0196390-A 6 20-DEC-2001;
            CORIXA CORPORATION (US)
FEATURES
            source
            1..485
            /organism="Homo sapiens"
            /db_xref="taxon:9606"
BASE COUNT  109 a  155 c  124 g  97 t
ORIGIN

Query Match      40.1%; Score 323; DB 6; Length 485;
Best Local Similarity 100.0%; Pred. No. 3.5e-183;
Matches 323; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GAAATCTGCCTTCTCACCATGAGGCTTCTAGTCCCTTTCCAGCGCTCTCTGATTCCTGCT 69
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RESULT 9
AX330090/c
LOCUS AX330090 366 bp DNA linear PAT 09-JAN-2002
DEFINITION Sequence 599 from Patent WO0194629.
ACCESSION AX330090
VERSION AX330090.1 GI:18103068
KEYWORDS human.
SOURCE Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Young, P.E., Augustus, M., Carter, K.C., Ebner, R., Endress, G.,
Horrigan, S., Soppet, D.R. and Weaver, Z.
TITLE Cancer gene determination and therapeutic screening using signature
gene sets
JOURNAL Patent: WO 0194629-A 599 13-DEC-2001;
Avalon Pharmaceuticals (US)
FEATURES
Location/Qualifiers
source 1..366
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 77 a 80 c 119 g 90 t
ORIGIN
Query Match 24.3%; Score 196; DB 6; Length 366;
Best Local Similarity 99.6%; Pred. No. 2.3e-106;
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 357 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 416
Db 366 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 307

Qy 417 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 476
Db 306 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 247

Qy 477 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 536
Db 246 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 187

Qy 537 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 596
Db 186 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 127

Qy 597 GAGTGCA 603
Db 126 GAGTGCA 120

RESULT 10
AX335580/c
LOCUS AX335580 366 bp DNA linear PAT 09-JAN-2002
DEFINITION Sequence 6089 from Patent WO0194629.
ACCESSION AX335580
VERSION AX335580.1 GI:18126299
KEYWORDS human.
SOURCE Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Young, P.E., Augustus, M., Carter, K.C., Ebner, R., Endress, G.,
Horrigan, S., Soppet, D.R. and Weaver, Z.
TITLE Cancer gene determination and therapeutic screening using signature
gene sets
JOURNAL Patent: WO 0194629-A 6089 13-DEC-2001;
Avalon Pharmaceuticals (US)
FEATURES
Location/Qualifiers
source 1..366
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 77 a 80 c 119 g 90 t
ORIGIN
Query Match 24.3%; Score 196; DB 6; Length 366;
Best Local Similarity 99.6%; Pred. No. 2.3e-106;
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 357 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 416
Db 366 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 307

Qy 417 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 476
Db 306 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 247

Qy 477 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 536
Db 246 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 187

Qy 537 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 596
Db 186 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 127

Qy 597 GAGTGCA 603
Db 126 GAGTGCA 120

RESULT 11
AX408291/c
LOCUS AX408291 366 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 938 from Patent WO0229103.
ACCESSION AX408291
VERSION AX408291.1 GI:21440996
KEYWORDS human.
SOURCE Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Alvares, C., Horne, D., Peres-da-Silva, S. and Vockley, J.G.
TITLE Gene expression profiles in liver cancer
JOURNAL Patent: WO 0229103-A 938 11-APR-2002;
GENE LOGIC INC (US)
FEATURES
Location/Qualifiers
source 1..366
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 77 a 80 c 119 g 90 t
ORIGIN
Query Match 24.3%; Score 196; DB 6; Length 366;
Best Local Similarity 99.6%; Pred. No. 2.3e-106;
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 357 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 416
Db 366 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 307

Qy 417 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 476
Db 306 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 247

Qy 477 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 536
Db 246 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 187

Qy 537 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 596
Db 186 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 127

Qy 597 GAGTGCA 603
Db 126 GAGTGCA 120
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ORIGIN
Query Match 24.3%; Score 196; DB 6; Length 366;
Best Local Similarity 99.6%; Pred. No. 2.3e-106;
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 357 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 416
Db 366 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 307

Qy 417 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 476
Db 306 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 247

Qy 477 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 536
Db 246 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 187

Qy 537 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 596
Db 186 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 127

Qy 597 GAGTGCA 603
Db 126 GAGTGCA 120

RESULT 11
AX408291/c
LOCUS AX408291 366 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 938 from Patent WO0229103.
ACCESSION AX408291
VERSION AX408291.1 GI:21440996
KEYWORDS human.
SOURCE Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Alvares, C., Horne, D., Peres-da-Silva, S. and Vockley, J.G.
TITLE Gene expression profiles in liver cancer
JOURNAL Patent: WO 0229103-A 938 11-APR-2002;
GENE LOGIC INC (US)
FEATURES
Location/Qualifiers
source 1..366
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 77 a 80 c 119 g 90 t
ORIGIN
Query Match 24.3%; Score 196; DB 6; Length 366;
Best Local Similarity 99.6%; Pred. No. 2.3e-106;
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 357 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 416
Db 366 AGCCTTCACAGCAGTGCAGTCAATGTTGGAGGGCTTCATCTCGGGCTGCAAGACCCCTG 307

Qy 417 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 476
Db 306 GGAAGTTCCAGAACTCCAGTCTCTGCTCAATTGTCATCAATTCAGAGCTATCA 247

Qy 477 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 536
Db 246 TGAGCCAACTCCACCCACAGGGCTCAGTCCGACCATGTGGCCCTCTCCAGTGCAAAAC 187

Qy 537 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 596
Db 186 CACCGAGCATTCACCATGACCGGTCAAGTCCAGTCAAAATCCAGAGACCATCAATCCTGCTA 127

Qy 597 GAGTGCA 603
Db 126 GAGTGCA 120
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Db 126 GAGTCA 120

RESULT 12
AX342222
LOCUS AX342222 4159 bp DNA linear PAT 12-JAN-2002
DEFINITION Sequence 8 from Patent WO0198497.
ACCESSION AX342222
VERSION AX342222.1 GI:18151765
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS 1
TITLE Polverino,A.J. and Luethy,R.
JOURNAL Secreted epithelial colon stromal-1 polypeptides, nucleic acids encoding the same and uses thereof
Patent: WO 0198497-A 8 27-DEC-2001;
Amgen, Inc. (US)

FEATURES
Location/Qualifiers
source 1..4159
/organism="Homo sapiens"
/db_xref="taxon:9606"
1..69
2627..2725
4079..4159
exon
exon
BASE COUNT 1009 a 1037 c 983 g 1110 t 20 others
ORIGIN

Query Match 11.5%; Score 93; DB 6; Length 4159;
Best Local Similarity 100.0%; Pred. No. 4.9e-44;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 AGGGAAGAGGCTCTCTGCAAGGCTGTCTGAGGAGGAGACCGCTCTGTCGCCACCG 156
Db 2634 AGGGAAGAGGCTCTCTGCAAGGCTGTCTGAGGAGGAGACCGCTCTGTCGCCACCG 2693

Qy 157 AGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 189
Db 2694 AGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 2726

RESULT 13
AL671190/c
LOCUS AL671190 180176 bp DNA linear ROD 24-MAY-2002
DEFINITION Mouse DNA sequence from clone RP23-464L12 on chromosome 4, complete sequence.
ACCESSION AL671190.9 GI:21214169
VERSION AL671190.9 GI:21214169
KEYWORDS HTG.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 180176)
Griffiths,C.
Direct Submission
Submitted (24-MAY-2002) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: clonerequest@sanger.ac.uk
humquery@sanger.ac.uk
On May 25, 2002 this sequence version replaced gi:21213389.
During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping Group. Further information can be found at
http://www.sanger.ac.uk/HGP/Chr1
RP11-398M15 is from the library RPC1-11.2 constructed by the group of Pieter de Jong. For further details see

one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping Group. Further information can be found at
http://www.sanger.ac.uk/HGP/Chr1
RP11-398M15 is from the library RPC1-11.2 constructed by the group of Pieter de Jong. For further details see

FEATURES
Location/Qualifiers
source 1..180176
/organism="Mus musculus"
/db_xref="taxon:10090"
/chromosome="4"
/clone="RP23-464L12"
/clone_lib="RPC1-23"
BASE COUNT 49850 a 42493 c 40551 g 47282 t
ORIGIN

Query Match 3.3%; Score 27; DB 10; Length 180176;
Best Local Similarity 100.0%; Pred. No. 0.00046;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 757 CAAACAAACAGTAATAATAATAATAA 783
Db 148361 CAAACAAACAGTAATAATAATAATAA 148335

RESULT 14
AL357974/c
LOCUS AL357974 93165 bp DNA linear PRI 01-JUN-2001
DEFINITION Human DNA sequence from clone RP11-398M15 on chromosome 1, complete sequence.
ACCESSION AL357974
VERSION AL357974.16 GI:14329558
KEYWORDS HTG.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 93165)
Mashreghi-Mohammadi,M.
Direct Submission
Submitted (01-JUN-2001) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
requests: clonerequest@sanger.ac.uk
On Jun 8, 2001 this sequence version replaced gi:13751416.
During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping Group. Further information can be found at
http://www.sanger.ac.uk/HGP/Chr1
RP11-398M15 is from the library RPC1-11.2 constructed by the group of Pieter de Jong. For further details see

<http://www.chori.org/bacpac/home.htm>
VECTOR: pBAC3.6

IMPORTANT: This sequence is not the entire insert of clone RP11-398M15. It may be shorter because we sequence overlapping sections only once, except for a 100 base overlap. The true right end of clone RP11-398M15 is at 93165 in this sequence. The true right end of clone RP11-110P20 is at 100 in this sequence.

FEATURES

source	Location/Qualifiers	
	1..93165	repeat_region
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/db_xref="taxon:9606"		
/chromosome="1"		
/clone="RP11-398M15"		
/clone_lib="RPC1-11.2"		
843..965		repeat_region
/note="L2 repeat: matches 2605..2740 of consensus"		
1154..1770		repeat_region
/note="L2 repeat: matches 1841..2413 of consensus"		
1771..2127		repeat_region
/note="MLM1A1 repeat: matches 1..365 of consensus"		
2128..2628		repeat_region
/note="L2 repeat: matches 1216..1841 of consensus"		
3949..3990		repeat_region
/note="LTR40b repeat: matches 421..462 of consensus"		
7352..7720		repeat_region
/note="L1P4 repeat: matches 5777..6146 of consensus"		
8235..8278		repeat_region
/note="11 copies 4 mer caca 100% conserved"		
8831..8980		repeat_region
/note="75 copies 2 mer at 85% conserved"		
8837..8980		repeat_region
/note="36 copies 4 mer atat 86% conserved"		
9022..9093		repeat_region
/note="L2 repeat: matches 2679..2750 of consensus"		
9284..9367		repeat_region
/note="L1M4 repeat: matches 3167..3240 of consensus"		
9368..10098		repeat_region
/note="L1P13 repeat: matches 5419..6155 of consensus"		
10099..10174		repeat_region
/note="L1M4 repeat: matches 3061..3167 of consensus"		
10237..12387		repeat_region
/note="L1MEC repeat: matches 1379..3033 of consensus"		
12458..13627		repeat_region
/note="L1MEC repeat: matches 102..1288 of consensus"		
14898..21039		repeat_region
/note="L1P3 repeat: matches 1..6145 of consensus"		
22297..23011		repeat_region
/note="LTR1 repeat: matches 1..718 of consensus"		
23284..23408		repeat_region
/note="MIR repeat: matches 118..248 of consensus"		
23442..24061		repeat_region
/note="MER67C repeat: matches 1..709 of consensus"		
24234..24297		repeat_region
/note="MER92C repeat: matches 489..552 of consensus"		
24564..25039		repeat_region
/note="MER89 repeat: matches 1..559 of consensus"		
25623..25911		repeat_region
/note="AluSc repeat: matches 1..301 of consensus"		
28551..30612		repeat_region
/note="L1MC2 repeat: matches 4265..6328 of consensus"		
31945..32066		repeat_region
/note="MSTB repeat: matches 305..426 of consensus"		
32574..33996		repeat_region
/note="L1MEC repeat: matches 1317..2374 of consensus"		
33997..34097		repeat_region
/note="L2 repeat: matches 2146..2247 of consensus"		
34152..34322		repeat_region
/note="L2 repeat: matches 2552..2732 of consensus"		
35014..35066		repeat_region
/note="L2 repeat: matches 2657..2709 of consensus"		
38011..38055		repeat_region
/note="5S repeat: matches 1..45 of consensus"		
38062..38665		repeat_region
/note="L1P11 repeat: matches 5549..6165 of consensus"		
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/note="HERVL repeat: matches 4356..4930 of consensus"		
40716..40783		repeat_region
/note="17 copies 4 mer ggag 69% conserved"		
41270..41408		repeat_region
/note="L2 repeat: matches 1273..1413 of consensus"		
41409..41691		repeat_region
/note="AluY repeat: matches 1..309 of consensus"		
41692..41765		repeat_region
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41766..42192		repeat_region
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42193..42252		repeat_region
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43672..43854		repeat_region
/note="MER5A repeat: matches 1..183 of consensus"		
44566..44647		repeat_region
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48671..48763		repeat_region
/note="L2 repeat: matches 2564..2662 of consensus"		
48766..48933		repeat_region
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/note="L2 repeat: matches 69..386 of consensus"		
51782..52105		repeat_region
/note="MER44A repeat: matches 3..333 of consensus"		
53670..54781		repeat_region
/note="L1P15 repeat: matches 5065..6157 of consensus"		
54782..55089		repeat_region
/note="AluSp repeat: matches 3..310 of consensus"		
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/note="L1P15 repeat: matches 4480..5065 of consensus"		
55692..56707		repeat_region
/note="L1P repeat: matches 2855..3886 of consensus"		
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/note="L1M4 repeat: matches 2949..3054 of consensus"		
57122..57177		repeat_region
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57743..57880		repeat_region
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58525..58570		repeat_region
/note="MSTA repeat: matches 381..426 of consensus"		
58573..58866		repeat_region
/note="AluSp repeat: matches 4..307 of consensus"		
58867..58942		repeat_region
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58962..59333		repeat_region
/note="MSTA repeat: matches 6..399 of consensus"		
59428..59494		repeat_region
/note="L2 repeat: matches 1951..2023 of consensus"		
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/note="MER58A repeat: matches 2..223 of consensus"		
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/note="AluY repeat: matches 1. .289 of consensus"
62183. .62230
/note="L2 copies 4 mer taaa 93% conserved"
62351. .62659
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62847. .63179
/note="MLT1A1 repeat: matches 1. .365 of consensus"
64094. .64321
/note="L1M4c repeat: matches 1515. .1742 of consensus"
64649. .64953
/note="MLT1E repeat: matches 264. .568 of consensus"

Query Match      3.1% Score 25; DB 9; Length 93165;
Best Local Similarity 100.0%; Pred.No. 0.0073;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 763 AACAGTAATAATAATAATAATAA 787
Db 55365 AACAGTAATAATAATAATAATAA 55341

RESULT 15
AC022829/c
LOCUS
DEFINITION Homo sapiens clone RP11-121C1, WORKING DRAFT SEQUENCE, 20 unordered
pieces.
ACCESSION AC022829
VERSION AC022829.3 GI:7249268
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 152245)
Birren,B., Linton,L., Nusbaum,C. and Lander,E.
Homo sapiens, clone RP11-121C1
Unpublished
2 (bases 1 to 152245)
Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
Anderson,S., Baldwin,J., Barna,N., Beckerly,R., Bada,F.,
Boguslavskiy,B., Boukhgaltier,B., Brown,A., Burkett,G., Castle,A.,
Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P.,
DeArellano,K., Dewar,K., Domino,M., Doyle,M., Fenesstor,J.,
Ferrelira,P., FitzHugh,W., Forrest,C., Gage,D., Galagan,J.,
Gardyna,S., Grant,G., Hagos,B., Heaford,A., Horton,L.,
Howard,J.C., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J.,
Landers,T., Lehoczy,J., Levine,R., Lie,C., Liu,G., Locke,K.,
Macdonald,P., Marquis,N., McEwan,P., McGurk,A., McKernan,K.,
McPheeters,R., Meldrim,J., Meneus,L., Morrow,J., Naylor,J.,
Norman,C.H., O'Connor,T., O'Donnell,P., Olivat,T.M., Peterson,K.,
Pierre,N., Pisani,C., Pollara,V., Raymond,C., Riley,R., Rothman,D.,
Roy,A., Santos,R., Severy,P., Spencer,B., Stange-Thomann,N.,
Stojanovic,N., Subramanian,A., Talamas,J., Testaye,S., Theodore,J.,
Tirrell,A., Vassiliev,H., Viel,R., Vo,A., Wu,X., Wyman,D., Ye,W.J.,
Zimmer,A. and Zody,M.
Direct Submission
Submitted (06-FEB-2000) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Mar 16, 2000 this sequence version replaced gi:6984468.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WBIR
Web site: http://www-seq.wi.mit.edu
Contact: sequence submissions@genome.wi.mit.edu
----- Project Information
Center project name: L6137
Center clone name: 121_C_1
----- Summary Statistics

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Sequencing vector: M13; M77815; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 142478 bases at least Q40
Consensus quality: 147185 bases at least Q30
Consensus quality: 148983 bases at least Q20
Insert size: 150000; agarose-fp
Insert size: 150345; sum-of-contigs
Quality coverage: 4.3 in Q20 bases; agarose-fp
Quality coverage: 4.3 in Q20 bases; sum-of-contigs
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* NOTE: This is a 'working draft' sequence. It currently
* consists of 20 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*
* 1 1283: contig of 1283 bp in length
* 1284 1383: gap of 100 bp
* 1384 1916: contig of 533 bp in length
* 1917 2016: gap of 100 bp
* 2017 3647: contig of 1631 bp in length
* 3648 3747: gap of 100 bp
* 3748 5481: contig of 1734 bp in length
* 5482 5581: gap of 100 bp
* 5582 6718: contig of 1137 bp in length
* 6719 6818: gap of 100 bp
* 6819 10904: contig of 4086 bp in length
* 10905 11004: gap of 100 bp
* 11005 14393: contig of 3389 bp in length
* 14394 14493: gap of 100 bp
* 14494 18255: contig of 3762 bp in length
* 18256 18355: gap of 100 bp
* 18356 23193: contig of 4838 bp in length
* 23194 23293: gap of 100 bp
* 23294 28506: contig of 5213 bp in length
* 28507 28606: gap of 100 bp
* 28607 36308: contig of 7702 bp in length
* 36309 36408: gap of 100 bp
* 36409 43542: contig of 7134 bp in length
* 43543 43642: gap of 100 bp
* 43643 51047: contig of 7405 bp in length
* 51048 51147: gap of 100 bp
* 51148 61019: contig of 9872 bp in length
* 61020 61119: gap of 100 bp
* 61120 74018: contig of 12899 bp in length
* 74019 74118: gap of 100 bp
* 74119 84938: contig of 10820 bp in length
* 84939 85038: gap of 100 bp
* 85039 100034: contig of 14956 bp in length
* 100035 100134: gap of 100 bp
* 100135 112980: contig of 12846 bp in length
* 112981 113080: gap of 100 bp
* 113081 130270: contig of 17190 bp in length
* 130271 130370: gap of 100 bp
* 130371 152245: contig of 21875 bp in length.
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                /db_xref="taxon:9606"
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misc_feature    1. .1283
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misc_feature    2017. .3647
                /note="assembly_fragment"
misc_feature    3748. .5481

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GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 17, 2003, 11:17:06 ; Search time 267 Seconds
(without alignments)
6798.167 Million cell

Title: US-09-724-000A-4
 Perfect score: 806
 Sequence: 1 gaaacgaggaataatggcc.....actcaatccagacacacaaaa 806

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 2185239 seqs, 1125999159 residues

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Word size : 0
Total number of hits satisfying chosen parameters: 4370478

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query #	Query			DB			ID	Description
		Score	Match	Length					
1	806	100.0	806	24	AAD72025	Human Secreted epi			
2	782	97.0	804	22	AAS21318	Human cDNA sequenc			
3	732	90.8	908	22	AAF37898	Human secreted pro			
C 4	537	66.6	801	21	AAA72224	Human CASB611 cDNA			
C 5	498	61.8	797	21	AAA72230	Human CASB gene pa			
6	323	40.1	485	24	ABK27569	Human colon cancer			
7	299	37.1	382	24	ABL37082	Human colon tumour			
C 8	231	28.7	487	22	AAS39569	Human digestive sy			
9	231	28.7	487	22	AAK98908	Human digestive sy			

10	220	27.3	227	22	AAS02026	Bladder cancer-ass
C 11	196	24.3	366	24	ABN94440	Gene #938 used to
C 12	196	24.3	366	24	ABL62262	Colon adenocarcino
C 13	196	24.3	366	24	ABL67752	Oesophagus cancer
C 14	133	16.5	629	24	ABQ57070	Human colon cancer
C 15	93	11.5	4159	24	AAD27026	Human Secreted epi
C 16	60	7.4	60	24	ABN43987	Human secreted tran
C 17	23	2.9	151	21	ABC20052	Human secreted pro
C 18	23	2.9	7355	24	ABN80297	Human chemically m
C 19	23	2.9	8911	22	ABN06809	Human genomic DNA #
C 20	23	2.9	8911	22	AA341748	Genomic sequence #
C 21	23	2.9	119198	24	ABK83565	Human cDNA differe
C 22	22	2.7	344	21	AAC23854	Human secreted pro
C 23	22	2.7	377	24	ABK44861	cDNA encoding colo
C 24	22	2.7	377	24	ABK45072	cDNA encoding colo
C 25	22	2.7	494	24	ABK27657	Human colon cancer
C 26	22	2.7	801	22	AA197646	Human neuroblastom
C 27	22	2.7	1844	21	AAFL6260	Human prostate can
C 28	22	2.7	2368	23	ABL28260	Drosophila melanog
C 29	22	2.7	13342	22	AAJ06979	Human reproductive
C 30	22	2.7	143306	24	ABK49596	Human transporter
C 31	21	2.6	21	24	AAD27027	Human Secreted epi
C 32	21	2.6	1693	22	AAF63803	Human secreted pro
C 33	21	2.6	5491	22	AAFG6904	Human immune/haema
C 34	21	2.6	5586	24	ABL32668	Human immune syste
C 35	21	2.6	7609	24	ABL32628	Human immune syste
C 36	21	2.6	8101	24	ABL33979	Human immune syste
C 37	21	2.6	9299	24	ABL33724	Human immune syste
C 38	21	2.6	15500	22	AAS46507	Tumour suppressor
C 39	21	2.6	125439	24	AOB81177	Human osteoblast d
C 40	20	2.5	186	21	ABC27822	Human secreted pro
C 41	20	2.5	441	21	AA28871	Human secreted pro
C 42	20	2.5	442	22	AAH33689	Human colon cancer
C 43	20	2.5	452	17	AA742809	Polymorphic locus
C 44	20	2.5	463	22	AAK90944	Human digestive sy
C 45	20	2.5	463	22	AAS31979	Human liver associ

ALIGNMENTS

[illegible]

PD XX 27-DEC-2001.
PF XX 28-NOV-2000; 2000WO-US32479.
XX XX 21-JUN-2000; 2000US-0599087.
PR XX 28-NOV-2000; 2000US-0724000.
XX XX (AMGE-) AMGEN INC.
XX XX Polverino AJ, Luethy R;
PI WPI; 2002-122281/16.
XX DR P-PSDB; AAE16481.
XX XX Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
PT useful for diagnosing, treating and preventing hematopoietic disorder,
PT osteoporosis, Paget's disease, cancer, diabetes -
XX XX Claim 1; Fig 2; 134pp; English.
XX XX The present invention relates to an isolated murine or human secreted
CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
CC therapy and cell therapy. Secs-1 is useful for identifying a compound
CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
CC preventing or ameliorating a disease condition such as haematopoietic
CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
CC is also useful for diagnosing a pathological condition which involves
CC determining the presence or amount of Secs-1 or polypeptide encoded by
CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
CC susceptibility to pathological condition based on the presence or amount
CC of expression of the polypeptide. The present sequence is human Secs-1
CC DNA.
XX XX Sequence 806 BP; 207 A; 257 C; 179 G; 163 T; 0 other;
SQ Query Match 100.0%; Score 806; DB 24; Length 806;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 806; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 61 TATCTGCTTCTGCTTCTCCATCTTCTCCACAGAGGAGGCGTCTGCGCAAGGC 120
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Qy 121 CTGGTCAGGAGGAGAACAGGCTCTGCTCCACGAGTCCCTAGCCCAACTCAACAAA 180
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Qy 301 CGGAAACCTCATGCTGGCACTCAGGTACCCAGCAGCTCTGCTCCCTTTTCAGCC 360
Db 301 CGGAAACCTCATGCTGGCACTCAGGTACCCAGCAGCTCTGCTCTCTCTTTTCAGCC 360
Qy 361 TTCACAGAGTGAAGTGTGGAGGCTTCACTCTCGGCTGCAAGGACCTTGGGAA 420
Db 361 TTCACAGAGTGAAGTGTGGAGGCTTCACTCTCGGCTGCAAGGACCTTGGGAA 420
Qy 421 AGTTCAGAACTCCAGCTCTGCTTCAATGTGTCATCAACTTTCAGAGTATCATGAG 480
Db 421 AGTTCAGAACTCCAGCTCTGCTTCAATGTGTCATCAACTTTCAGAGTATCATGAG 480

Qy 481 CCAACCTCACCCACAGGGCTCAGTCCACCATGTGGGCTCTCCAGTCAAAACACACC 540
Db 481 CCAACCTCACCCACAGGGCTCAGTCCACCATGTGGGCTCTCCAGTCAAAACACACC 540
Qy 541 GAGCATTCACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTGCTAGAGT 600
Db 541 GAGCATTCACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCTGCTAGAGT 600
Qy 601 GCAGGTGGCAAGCACCACCAAGGGTGGTACCAGACTGCAGAGTCTCTCCATCTTCAG 660
Db 601 GCAGGTGGCAAGCACCACCAAGGGTGGTACCAGACTGCAGAGTCTCTCCATCTTCAG 660
Qy 661 GTCCATTTCAGCTCTCTGGCATTTAACTACAGCATCCAGTGGTCCCAAGGAATCCCTTC 720
Db 661 GTCCATTTCAGCTCTCTGGCATTTAACTACAGCATCCAGTGGTCCCAAGGAATCCCTTC 720
Qy 721 CTAGCCTCTGACATGATCTGTGGAAAGAGCATCCAAACAAAGTAATAATAAAT 780
Db 721 CTAGCCTCTGACATGATCTGTGGAAAGAGCATCCAAACAAAGTAATAATAAAT 780
Qy 781 AATAAACTCAATGCACACACAAAAA 806
Db 781 AATAAACTCAATGCACACACAAAAA 806
RESULT 2
AAS21318
ID AAS21318 standard; cDNA; 804 BP.
XX AAS21318;
XX AC
XX XX
DT 24-OCT-2001 (first entry)
XX DE Human cDNA sequence encoding for PRO3446 polypeptide.
XX KW Human secretory and transmembrane; PRO; mammalian; cancer; lung;
KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
KW adipocyte; A-peptide; factor VIIA; gene therapy; ss.
OS Homo sapiens.
XX XX
XX WO200140466-A2.
XX PD 07-JUN-2001.
XX PF 01-DEC-2000; 2000WO-US32678.
XX PR 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 02-DEC-1999; 99WO-US28551.
PR 02-DEC-1999; 99WO-US28564.
PR 02-DEC-1999; 99WO-US28565.
PR 09-DEC-1999; 99US-0170262.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US30999.
PR 30-DEC-1999; 99WO-US31243.
PR 06-JAN-2000; 2000WO-US00277.
PR 11-FEB-2000; 2000WO-US00376.
PR 18-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 20-MAR-2000; 2000WO-US07377.
PR 21-MAR-2000; 2000WO-US07332.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 10-NOV-2000; 2000WO-US30873.
XX (GETH) GENENTECH INC.
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2001-408281/43.
DR P-PSDB; AAU12246.
XX Isolated, secretory and transmembrane PRO polypeptide used to detect
PT other PRO polypeptides, link bioactive molecules to cells expressing
PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
PT lung, breast, prostate, cervical -
XX Claim 3; Fig 149; 813pp; English.
XX AAS21244-AAS21518 encode for novel human secretory and transmembrane
CC PRO polypeptides. The PRO polypeptides are useful to detect other
CC PRO polypeptides, to link bioactive molecules to cells expressing
CC PRO polypeptides, to modulate biological activities of cells expressing
CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample.
CC Some of the 275 sequences are also useful to stimulate the release of
CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
CC proliferation or differentiation of chondrocytes, the proliferation or
CC gene expression in pericyte cells, the release of proteoglycans from
CC cartilage, the proliferation of inner ear utricular supporting cells or
CC of T-lymphocytes, the release of a cytokine from peripheral blood
CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
CC to factor VIIA. The PRO polypeptides can be used in assays to identify
CC molecules involved in binding interactions. The polynucleotides encoding
CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy.
XX
SQ Sequence 804 BP; 199 A; 263 C; 176 G; 166 T; 0 other;
Query Match 97.0%; Score 782; DB 22; Length 804;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 10 GAAATCTGCTTCTCACCATGAGGCTTCTAGTCTCTTCCAGGCTGCTCTGTATCTCTGCT 69
Db |||||||
Qy 23 GAAATCTGCTTCTCACCATGAGGCTTCTAGTCTCTTCCAGGCTGCTCTGTATCTCTGCT 82
Db |||||||
Qy 70 TCTCTGCTTCTCCATCTTCTCCACAGAGGGAAGGCGTCTGCGAAGGCTGCTGTCAGG 129
Db |||||||
Qy 83 TCTCTGCTTCTCCATCTTCTCCACAGAGGGAAGGCGTCTGCGAAGGCTGCTGTCAGG 142
Db |||||||
Qy 130 CAGGAGAACCAAGGCTCTGCTGCCACCGAGTCCCTAGCCGCCCACTCAACAACTGAAAGG 189
Db |||||||
Qy 143 CAGGAGAACCAAGGCTCTGCTGCCACCGAGTCCCTAGCCGCCCACTCAACAACTGAAAGG 202
Db |||||||
Qy 190 ACATCATGTGAGGCTCTCTAAACCATGCAAGCTTGAGCCAGAGCCCGCCCTTTGGGTGGT 249
Db |||||||
Qy 203 ACATCATGTGAGGCTCTCTAAACCATGCAAGCTTGAGCCAGAGCCCGCCCTTTGGGTGGT 262
Db |||||||
Qy 250 GCCTGGGGCACTCCACAGGTTAGCACTCCCAAGCAAGACTCCAGACGGGAGGACCC 309
Db |||||||
Qy 263 GCCTGGGGCACTCCACAGGTTAGCACTCCCAAGCAAGACTCCAGACGGGAGGACCC 322
Db |||||||
Qy 310 TCATCGCTGGCACTGAGGTACCCAGCAGGCTCTGCTCTCCCTTTACGCTTTCACAGCA 369
Db |||||||
Qy 323 TCATCGCTGGCACTGAGGTACCCAGCAGGCTCTGCTCTCCCTTTACGCTTTCACAGCA 382
Db |||||||
Qy 370 GTGAGCTCCAATGTTGGAGGCTTCATCTCGGGTGCAGGACCCCTGGAAAGTTCCAGA 429
Db |||||||

Db 383 GTGAGTGCATGTTGGAGGGCTTCTATCTCGGGCTGCAAGACCCCTGGGAAAGTTCCAGA 442
Qy 430 ACTCCAGCTCTCTTGTCTCAATTTGTGCCATCAACTTTTTCAGAGCTATCATGAGCCAACTCA 489
Db |||||||
Db 443 ACTCCAGCTCTCTTGTCTCAATTTGTGCCATCAACTTTTTCAGAGCTATCATGAGCCAACTCA 502
Qy 490 CCCACAGGGGCTCAGTGGCCACCATGTGGGCTCTCTCCAGTGCAAAACCCAGGAGCATTC 549
Db 503 CCCACAGGGGCTCAGTGGCCACCATGTGGGCTCTCTCCAGTGCAAAACCCAGGAGCATTC 562
Qy 550 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTGCTAGAGTGCAAGGCTGG 609
Db 563 ACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTGCTAGAGTGCAAGGCTGG 622
Qy 610 CAAGCACCCCAAGGCTGCTGACCAAGACTCCAGAGTCTCTCCATCTTTCAGGTCATTC 669
Db 623 CAAGCACCCCAAGGCTGCTGACCAAGACTCCAGAGTCTCTCCATCTTTCAGGTCATTC 682
Qy 670 GCTCTCTGGCATTTAACTACCAAGCATCCAGTGGTCCCAAGGAATCCCTTCTAGCCTCC 729
Db 683 GCTCTCTGGCATTTAACTACCAAGCATCCAGTGGTCCCAAGGAATCCCTTCTAGCCTCC 742
Qy 730 TGACATGAGTCTGCTGGAAGAGCATCCAAACAAAGTAATAATAATAATAATAAACT 789
Db 743 TGACATGAGTCTGCTGGAAGAGCATCCAAACAAAGTAATAATAATAATAATAAACT 802
Qy 790 CA 791
Db |||||
Db 803 CA 804
RESULT 3
AAF97898
ID AAF97898 standard; cDNA; 908 BP.
XX AAF97898;
AC AAF97898;
XX 01-JUN-2001 (first entry)
XX Human secreted protein cDNA, SEQ ID NO: 25.
XX Human; secreted protein; immunomodulatory; antisclerotic;
KW dermatological; antiinflammatory; anti-HIV; cytostatic; cardiant;
KW vascular; anti-angiogenic; ophthalmological; neuroprotectant;
KW neotrophic; anticonvulsant; antialzheimers; antiparkinsonian;
KW antimicrobial; vulnery; vaccine; gene therapy; cancer;
KW protein coordinate data; infection; ss.
XX Homo sapiens.
OS
XX WO200121658-A1.
PN
XX 29-MAR-2001.
PD
XX 22-SEP-2000; 2000WO-US26013.
PF
XX 24-SEP-1999; 99US-0155709.
PR
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX Ni J, Baker KP, Birse CE, Ebner R, Fiscella M, Komatsoulis GA;
PI Lafleur DW, Moore PA, Olsen HS, Rosen CA, Ruben SA, Soppet DR;
PI Young PE, Wei P, Florence KA;
XX WPI; 2001-235311/24.
DR
XX Nucleic acids encoding 32 human secreted polypeptides, useful for
PT preventing, diagnosing and/or treating e.g. cancers, Parkinson's
PT disease and diabetic retinopathy -
XX Claim 1; Page 730; 890pp; English.
XX The present sequence encodes one of 32 novel human secreted polypeptides.
CC

CC The nucleic acid molecules and polypeptides they encode may be used in
CC the prevention, diagnosis and treatment of diseases such as
CC immune disorders (e.g. multiple sclerosis, systemic lupus erythematosus
CC and human immuno-deficiency virus (HIV) infections), hyperproliferative
CC disorders (e.g. cancers and Gaucher's disease), cardiovascular diseases
CC (e.g. Schmitz syndrome, Chaga's cardiomyopathy and coronary
CC arteriosclerosis), angiogenic disorders (e.g. corneal graft
CC neovascularisation and diabetic retinopathy), neurological disorders
CC (e.g. Huntington's chorea, Alzheimer's disease and Parkinson's disease),
CC infectious diseases and/or for promoting wound healing, regeneration
CC and/or chemotaxis. The nucleic acid molecules may be used to produce the
CC secreted polypeptides. They may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acid
CC sequences in samples. The polypeptides may be used as antigens in the
CC production of antibodies and in assays to identify modulators of
CC their expression and activity.

XX
SQ Sequence 908 BP; 242 A; 290 C; 197 G; 175 T; 4 other;

Query Match 90.8%; Score 732; DB 22; Length 908;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 782; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 10 GAAATCTGCTTTCACATGAGGCTTCTAGTCCCTTTCCAGCCCTGCTGTATCTCTGCT 69
DB 66 GAAATCTGCTTTCACATGAGGCTTCTAGTCCCTTTCCAGCCCTGCTGTATCTCTGCT 125
QY 70 TCTGCTTCTCCATCTTCTCCAGAGGAGGAGGCTGCTCCAGGCTGCTGAGG 129
DB 126 TCTGCTTCTCCATCTTCTCCAGAGGAGGAGGCTGCTCCAGGCTGCTGAGG 185
QY 130 CAGGAGAACAGGCTCTGCTGCCACCGAGTCCCTAGCCCACTCAACAAACCTGAAAGG 189
DB 186 CAGGAGAACAGGCTCTGCTGCCACCGAGTCCCTAGCCCACTCAACAAACCTGAAAGG 245
QY 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCGAGGCCCCCTTTGGTGGT 249
DB 246 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAGCGAGGCCCCCTTTGGTGGT 305
QY 250 GCCTGGGCACTCCACAGGTGTAGACCTCCCAAGCAAGACTCCAGACGGGAGAAC 309
DB 306 GCCTGGGCACTCCACAGGTGTAGACCTCCCAAGCAAGACTCCAGACGGGAGAAC 365
QY 310 TCATCGCTGGCACTGAGTACCCAGAGCCCTCTGTCTCCCTTTACGCTTTCACAGCA 369
DB 366 TCATCGCTGGCACTGAGTACCCAGAGCCCTCTGTCTCCCTTTACGCTTTCACAGCA 425
QY 370 GTGAGCTGCAATTTGGAGGGCTTCATCTCGGGCTGCAAGGACCTTGGAAAGTTCCAGA 429
DB 426 GTGAGCTGCAATTTGGAGGGCTTCATCTCGGGCTGCAAGGACCTTGGAAAGTTCCAGA 485
QY 430 ACTCCAGCTCCTTGTCTCAATTTGTGCCATCACTTTTCAGAGTATCATGAGCCCACTCA 489
DB 486 ACTCCAGCTCCTTGTCTCAATTTGTGCCATCACTTTTCAGAGTATCATGAGCCCACTCA 545
QY 490 CCCACAGGCTCAGTCCGACCATGTGGGCTCTCCAGTGCAACACCGAGCATTC 549
DB 546 CCCACAGGCTCAGTCCGACCATGTGGGCTCTCCAGTGCAACACCGAGCATTC 605
QY 550 ACCATGACCGGTTCACAGCTACAAATCCAGAGACCATCAATCTGCTAGAGTGCAGGGTGG 609
DB 606 ACCATGACCGGTTCACAGCTACAAATCCAGAGACCATCAATCTGCTAGAGTGCAGGGTGG 665
QY 610 CAGACACCAAGGGTGGCTGACCAAGACTCGAGAGTCTCTCCATCTTCAGGTCCATCA 669
DB 666 CAGACACCAAGGGTGGCTGACCAAGACTCGAGAGTCTCTCCATCTTCAGGTCCATCA 725
QY 670 GCCTCTGGCATTTAACTTACAGCATTCAGTGGTCCCAAGGAATCCCTTCTAGCTCC 729
DB 726 GCCTCTGGCATTTAACTTACAGCATTCAGTGGTCCCAAGGAATCCCTTCTAGCTCC 785
QY 730 TGACATGAGTCTGTGGAAAGAGCATCCAAACAAACAAAGTAAATAAATAAATAACT 789

DB 786 TGACATGAGTCTGTGGAAAGAGCATCCAAACAAACAAAGTAAATAAATAAATAACT 845
QY 790 CAA 792
DB 846 CAA 848
RESULT 4
AA72224/c
ID AAA72224 standard; cDNA; 801 BP.
XX
AC AAA72224;
XX
DT 06-DEC-2000 (first entry)
XX
DE Human CASB611 cDNA.
XX
KW Human; CASB611; colon-specific expression; expressed sequence tag;
KW EST; colon cancer; tumour; autoimmune disease; diagnosis;
KW disease susceptibility; prophylaxis; genetic vaccine; gene therapy; ss.
OS Homo sapiens.
XX
PN WO200043509-A2.
XX
PD 27-JUL-2000.
XX
PF 17-JAN-2000; 2000WO-EP00346.
XX
PR 19-JAN-1999; 99GB-0001078.
PR 29-JAN-1999; 99GB-0002090.
PR 01-FEB-1999; 99GB-0002163.
PR 01-FEB-1999; 99GB-0002168.
PR 01-FEB-1999; 99GB-0002169.
PR 07-APR-1999; 99GB-0007901.
XX
PA (SMIK) SMITHLINE BERTHAM BIOLOGICALS.
XX
PI Vinals-Bassols C;
XX
XX WPI; 2000-482912/42.
XX
PT New isolated polynucleotide useful for diagnosis and/or treatment of
PT colon cancer and autoimmune disease -
XX
PS Claim 3; Page 34; 41pp; English.
XX
CC This sequence represents human CASB611 cDNA. This gene exhibits
CC colon-specific expression and is highly expressed in the rectum.
CC The invention relates to human CASB cDNA sequences CASB611, CASB500,
CC CASB501, CASB502, CASB505 and CASB507 (AA72224-A72229, respectively)
CC and also to human CASB partial cDNA sequences (AA72230-A72235) derived
CC from expressed sequence tags (ESTs). Expression of the human CASB genes
CC (with the exception of CASB611) is associated with colon tumours, and
CC the encoded proteins (sequences not given in the specification)
CC represent colon tumour-associated antigens. The cDNA sequences may be
CC used in diagnosing the presence or a susceptibility to a disease related
CC to the presence, expression or activity of CASB genes. Such diseases
CC include autoimmune diseases and especially colon cancer. The nucleic
CC acid sequences may also be used in genetic vaccines for the prophylaxis
CC or therapeutic treatment of colon cancer and autoimmune diseases.
XX
SQ Sequence 801 BP; 165 A; 181 C; 255 G; 200 T; 0 other;
Query Match 66.6%; Score 537; DB 21; Length 801;
Best Local Similarity 100.0%; Pred. No. 28-246;
Matches 537; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 261 TCCACAGGTGTAGCTCCCAAGCAAGACTCCAGACGGGAGACCTCATGCTGCGC 320
DB 537 TCCACAGGTGTAGCTCCCAAGCAAGACTCCAGACGGGAGACCTCATGCTGCGC 478
QY 321 ACCTGAGGTACCCAGCAGCCTCTGCTCCCTTTACGCTTTCACAGCAGTGAGCTCAA 380

PN WO200196390-A2.
XX 20-DEC-2001.
XX 08-JUN-2001; 2001WO-US18557.
XX 09-JUN-2000; 2000US-210821P.
XX 18-DEC-2000; 2000US-256571P.
XX 10-MAY-2001; 2001US-290240P.
XX (CORI-) CORIXA CORP.
XX Jiang Y, Hepler WT, Clapper JD, Wang A, Secretist H;
XX WPI; 2002-139708/18.
XX Novel isolated polynucleotide encoding a polypeptide comprising a
PT portion of colon tumour protein, useful for detection, diagnosis and
PT therapy of human colon cancer
XX
XX Claim 1; Page 151-152; 220pp; English.
XX The invention relates to an isolated polynucleotide (I) encoding a
CC polypeptide (II) comprising at least a portion of a colon tumour
CC protein. (I), (II) and antibody (III) to (II) are useful for determining
CC the presence of a cancer in a patient. (I), (II) or antigen presenting
CC cells expressing (I) is useful for stimulating and/or expanding T cells
CC specific for a tumour protein, by contacting T cells with (I), (II) or
CC antigen-presenting cells that express (I), under conditions and for a
CC time sufficient to permit the stimulation and/or expansion of T cells.
CC (I), (II), or antigen presenting cells that express (II) are useful for
CC treating colon cancer in a patient by incubating CD4+ and/or CD8+ T cells
CC isolated from a patient with (I), (II) or antigen presenting cells that
CC express (II), such that T cells proliferate, and administering to the
CC patient an effective amount of the proliferated T cells, thus inhibiting
CC the development of a cancer in the patient. (I) or (II) is useful in
CC vaccines and pharmaceutical compositions for prevention and treatment
CC of colon malignancies and for the diagnosis and monitoring of such
CC cancers. (I) (II) or (III) is useful for detection, diagnosis and/or
CC therapy of human colon cancer. (I) is useful as a probe or primer for
CC nucleic acid hybridisation, and in the design and preparation of
CC ribozyme molecules for inhibiting expression of (II) in tumour cells.
CC ABK27564-ABK27807 represent novel human colon cancer coding
CC sequences and primers of the invention.
XX
XX Sequence 485 BP; 109 A; 155 C; 124 G; 97 T; 0 other;
SQ
Query Match 40.1%; Score 323; DB 24; Length 485;
Best Local Similarity 100.0%; Pred. No. 3.3e-144;
Matches 323; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 10 GAAATCTGCCTTCCACATGAGGCTTCTAGTCTCTTCCAGCTGCTGTATCTGCT 69
Db 60 GAAATCTGCCTTCCACATGAGGCTTCTAGTCTCTTCCAGCTGCTGTATCTGCT 119
Qy 70 TCTGTCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCTGCAAGGCTGTGTCAGG 129
Db 120 TCTGTCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCTGCAAGGCTGTGTCAGG 179
Qy 130 CAGGAGAACCCAGGCTCTGTGCCACCGAGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 189
Db 180 CAGGAGAACCCAGGCTCTGTGCCACCGAGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 239
Qy 190 ACATCATGTGAGGCTCTGTAAACCATGACGCTTGAAGCCAGAGCCCCCTTTGGGTGGT 249
Db 240 ACATCATGTGAGGCTCTGTAAACCATGACGCTTGAAGCCAGAGCCCCCTTTGGGTGGT 299
Qy 250 GCCTGGGCACTCCACAGGCTGTAGCACTCCCAAGAGCAAGACTCCAGACAGCGGAGAAC 309
Db 300 GCCTGGGCACTCCACAGGCTGTAGCACTCCCAAGAGCAAGACTCCAGACAGCGGAGAAC 359
Qy 310 TCATGCTGGCACTTCCAGGTACC 332

Db 360 TCATGCTGGCACCTGAGGTACC 382
RESULT 7
ABL37082/c
ID ABL37082 standard; cDNA; 382 BP.
XX
XX ABL37082;
XX
XX 08-APR-2002 (first entry)
XX Human colon tumour antigen polynucleotide SEQ ID NO:671.
XX Human; colon cancer; colon tumour antigen; cytostatic; vaccine;
XX colon tumour metastatic antigen; diagnosis; gene; ss.
XX Homo sapiens.
XX OS
XX WO200196388-A2.
XX PN
XX 20-DEC-2001.
XX
XX 08-JUN-2001; 2001WO-US18557.
XX
XX 09-JUN-2000; 2000US-210899P.
XX 20-FEB-2001; 2001US-270216P.
XX (CORI-) CORIXA CORP.
XX
XX Jiang Y, Harlocker SL, Secretist H;
XX WPI; 2002-114514/15.
XX
XX Novel isolated colon tumor polynucleotide differentially expressed in
PT colon tumor or colon metastatic tumor and polypeptides encoded by them,
PT useful for inhibiting development of cancer in patient
XX
XX Claim 1; SEQ ID 671; 105pp; English.
XX
XX ABL36412 to ABL38645 represent human colon tumour antigen cDNA clones (I)
CC which were isolated from human colon tumour and colon metastatic tumour
CC cDNA libraries. (I) have cytostatic activity and can be used in vaccine
CC production. (I) can be used for stimulating and/or expanding T cells
CC specific for a tumour protein on contact with the T cells. They are also
CC useful for inhibiting the development of cancer in a patient. (I) can be
CC used as probes or primers for nucleic acid hybridisation, for preparing
CC mutant species primers, or primers for use in genetic constructions. (I)
CC can be used in the diagnosis of a colon tumour.
XX
XX Sequence 382 BP; 76 A; 94 C; 122 G; 86 T; 4 other;
SQ
Query Match 37.1%; Score 299; DB 24; Length 382;
Best Local Similarity 100.0%; Pred. No. 9.7e-133;
Matches 299; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 10 GAAATCTGCCTTCTCACCATGAGGCTTCTAGTCTCTTCCAGCTGCTGTATCTGCTGCT 69
Db 320 GAAATCTGCCTTCTCACCATGAGGCTTCTAGTCTCTTCCAGCTGCTGTATCTGCTGCT 261
Qy 70 TCTGTCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCTGCAAGGCTGTGTCAGG 129
Db 260 TCTGTCTTCTCCATCTTCTCCACAGAGGAGGAGGCTCTGCTGCAAGGCTGTGTCAGG 201
Qy 130 CAGGAGAACCCAGGCTCTGTGCCACCGAGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 189
Db 200 CAGGAGAACCCAGGCTCTGTGCCACCGAGTCCCTAGCCCCCACTCAACAAACCTGAAAGG 141
Qy 190 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAAGCCAGAGCCCCCTTTGGGTGGT 249
Db 140 ACATCATGTGAGGCTCTGTAAACCATGCAAGCTTGAAGCCAGAGCCCCCTTTGGGTGGT 81
Qy 250 GCCTGGGCACTCCACAGGTGTAGCACTCCCAAGAGCAAGACTCCAGACAGCGGAGAAC 308

Db 80 GCCTGGGCACTCCACAGGTGTAGCACTCCCAAGCAAGACTCCAGACAGCGGAGAAC 22
RESULT 8
AAS39569
ID AAS39569 standard; cDNA; 487 BP.
XX AAS39569;
AC AAS39569;
XX
DT 17-DEC-2001 (first entry)
XX
DE cDNA encoding novel human colon associated polypeptide #222.
XX
KW Human; colon cancer; congenital abnormality; infection; colitis;
KW inflammatory bowel disease; IBD; neoplastic disorder; gene therapy;
KW intestinal inflammatory disorder; malabsorption syndrome; gastric;
KW sigmoid disease; antibacterial; antiviral; antiinflammatory;
KW cytostatic; ss.
XX
OS Homo sapiens.
XX
PN WO200155302-A2.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01240.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226868.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239835.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241321.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.

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PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-465567/50.
XX P-PSDB; AAU22689.
XX
XX Isolated polypeptide for treating, preventing and/or prognosing
XX disorders related to the colon including colon cancers and also for
XX testing and detection e.g. diagnosis -
XX
XX Claim 4; SEQ ID No 232; 562pp; English.
XX
XX The present invention relates to the isolation of novel human colon
XX associated polypeptides (AAU22468-AAU22701), and the cDNA and genomic
XX sequences encoding for them. The sequences of the invention are useful
XX in the diagnosis, treatment, prevention and/or prognosis of disorders
XX of the colon including colon cancer, congenital abnormalities
XX (e.g. atresia and stenosis), bacterial and viral infections,
XX inflammatory bowel disease (IBD), neoplastic cell disorders
XX (e.g. polyps and adenomas, intestinal inflammatory disorders, colitis,
XX colonic inflammation, diarrhoea and dysentery, malabsorption syndromes
XX (e.g. lactose intolerance), intestinal obstruction and sigmoid diseases.
XX The polynucleotide sequences of the invention can also be used in gene
XX therapy. AAS39348-AAS39581 represent cDNA sequences encoding for the
XX novel human colon associated polypeptides of the invention.
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 487 BP; 135 A; 156 C; 100 G; 95 T; 1 other;
XX
Query Match 28.7%; Score 231; DB 22; Length 487;
Best Local Similarity 99.6%; Pred. No. 2.9e-100;
Matches 281; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 375 CTGCAATGTTGAGGGCTTCATCTCGGGCTGCAAGGACCTGGGAAAGTTCAGAACTCC 434
Db 69 CTGCAATGTTGAGGGCTTCATCTCGGGCTGCAAGGACCTGGGAAAGTTCAGAACTCC 128
Qy 435 ACGTCCTTGTCTCAATGTTGGCCATCAACTTTTCAGAGCTATCATGAGCCAACTCACCCCA 494
Db 129 ACGTCCTTGTCTCAATGTTGGCCATCAACTTTTCAGAGCTATCATGAGCCAACTCACCCCA 188
Qy 495 CAGGGCCTCAGTCGCCACCATGTGGGCTCTCCAGTGAACCCAGCAGCATTCACCAT 554
Db 189 CAGGGCCTCAGTCGCCACCATGTGGGCTCTCCAGTGAACCCAGCAGCATTCACCAT 248
Qy 555 GACCCGTCACAGCTCAAAATCCAGAGACCATCAATCTCTAGAGTCAGGGTGGCAAGC 614
Db 249 GACCCGTCACAGCTCAAAATCCAGAGACCATCAATCTCTAGAGTCAGGGTGGCAAGC 308
Qy 615 ACCCAAGGGTGGCTGACCAAGACTGCAGAGTCTCTCCATCT 656
Db 309 ACCCAAGGGTGGCTGACCAAGACTGCAGAGTCTCTCCATCT 350
```

RESULT 9

```
AAK88908
ID AAK88908 standard; cDNA; 487 BP.
XX
XX AAK88908;
XX
XX 05-NOV-2001 (first entry)
XX
XX Human digestive system antigen coding sequence SEQ ID NO: 1224.
XX
XX Human; digestive system antigen; gene therapy; cancer; appendicitis;
XX ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;
XX digestive system disorder; Meckel's diverticulum; ss.
XX
XX Homo sapiens.
XX
XX WO200155314-A2.
XX
XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US01324.
XX
XX 31-JAN-2000; 2000US-0179065.
XX 04-FEB-2000; 2000US-0180628.
XX 24-FEB-2000; 2000US-0184664.
XX 02-MAR-2000; 2000US-0186350.
XX 16-MAR-2000; 2000US-0189874.
XX 17-MAR-2000; 2000US-0190076.
XX 18-APR-2000; 2000US-0198123.
XX 19-MAY-2000; 2000US-0205515.
XX 07-JUN-2000; 2000US-0209467.
XX 28-JUN-2000; 2000US-0214886.
XX 30-JUN-2000; 2000US-0215135.
XX 07-JUL-2000; 2000US-0216647.
XX 07-JUL-2000; 2000US-0216880.
XX 11-JUL-2000; 2000US-0217487.
XX 11-JUL-2000; 2000US-0217496.
XX 14-JUL-2000; 2000US-0218290.
XX 26-JUL-2000; 2000US-0220963.
XX 26-JUL-2000; 2000US-0220964.
XX 14-AUG-2000; 2000US-0224518.
XX 14-AUG-2000; 2000US-0224519.
XX 14-AUG-2000; 2000US-0225213.
XX 14-AUG-2000; 2000US-0225214.
XX 14-AUG-2000; 2000US-0225266.
XX 14-AUG-2000; 2000US-0225267.
XX 14-AUG-2000; 2000US-0225268.
XX 14-AUG-2000; 2000US-0225270.
XX 14-AUG-2000; 2000US-0225447.
XX 14-AUG-2000; 2000US-0225757.
XX 14-AUG-2000; 2000US-0225758.
XX 14-AUG-2000; 2000US-0225759.
XX 18-AUG-2000; 2000US-0226279.
XX 22-AUG-2000; 2000US-0226681.
XX 22-AUG-2000; 2000US-0226868.
XX 22-AUG-2000; 2000US-0227182.
XX 23-AUG-2000; 2000US-0227009.
XX 30-AUG-2000; 2000US-0228924.
XX 01-SEP-2000; 2000US-0229287.
XX 01-SEP-2000; 2000US-0229343.
XX 01-SEP-2000; 2000US-0229344.
XX 01-SEP-2000; 2000US-0229345.
XX 05-SEP-2000; 2000US-0229509.
XX 05-SEP-2000; 2000US-0229513.
XX 06-SEP-2000; 2000US-0230437.
XX 08-SEP-2000; 2000US-0230438.
XX 08-SEP-2000; 2000US-0231242.
XX 08-SEP-2000; 2000US-0231243.
XX 08-SEP-2000; 2000US-0231244.
XX 08-SEP-2000; 2000US-0231413.
XX 08-SEP-2000; 2000US-0231414.
```


KW Bladder; cancer; transitional cell carcinoma; diagnostic; TCC96C7; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
FH polyA_site 218
FT /*tag= a
XX
XX WO200122864-A2.
XX
XX 05-APR-2001.
XX
XX 27-SEP-2000; 2000WO-US41005.
XX
XX 27-SEP-1999; 99US-0156153.
XX
XX (QUAR-) QUARK BIOTECH INC.
PA (KOHN/) KOHN K I.
XX
XX Feinstein E, Mor O;
XX
XX WPI; 2001-258076/26.
XX
XX New polynucleotide sequences upregulated in bladder cancer for
PT diagnosing bladder cancer and inhibition of expression is useful for
PT treating and regulating bladder cancer-associated pathologies
PT
XX
XX Claim 4; Page 59; 64pp; English.
XX
XX The sequence represents the coding sequence of bladder cancer-associated
CC sequence, transitional cell carcinoma clone, TCC96C7. The sequence is
CC upregulated in bladder cancer and its expression is indicative of bladder
CC cancer. The sequence can be used as a marker, and can be used for
CC diagnosing bladder cancer. Antibodies, ribozymes, antisense
CC oligonucleotides or a dominant negative peptide directed against the
CC sequence are useful for regulating bladder cancer-associated pathologies
CC in a patient.
XX
XX Sequence 227 BP; 76 A; 63 C; 43 G; 45 T; 0 other;
SQ
Query Match 27.3%; Score 220; DB 22; Length 227;
Best Local Similarity 100.0%; Pred. No. 5.3e-95;
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 573 ATCCAGACCATCATCTCTAGAGTGCAGGTGGCAAGCACCAGGCTGCTGACC 632
Db 1 ATCCAGACCATCATCTCTAGAGTGCAGGTGGCAAGCACCAGGCTGCTGACC 60
Oy 633 AAGACTGCAGAGTCTCTCCATCTTCAGGTCCATTCAGCTCCTGGCATTTAACTACCAG 692
Db 61 AAGACTGCAGAGTCTCTCCATCTTCAGGTCCATTCAGCTCCTGGCATTTAACTACCAG 120
Oy 693 CATCAGTGGTCCCCAAGGAATCCCTTCCAGCTTCCATGATGATGCTGCTGGAAGAG 752
Db 121 CATCAGTGGTCCCCAAGGAATCCCTTCCAGCTTCCATGATGATGCTGCTGGAAGAG 180
Oy 753 CATCCAAACAACAGTAATAATAATAATAATAACTCAA 792
Db 181 CATCCAAACAACAGTAATAATAATAATAATAACTCAA 220
RESULT 11
ABN94440/C
ID ABN94440 standard; DNA; 366 BP.
XX
XX AC ABN94440;
XX
XX 13-AUG-2002 (first entry)
XX
XX Gene #938 used to diagnose liver cancer.
DE
XX
XX Gene; liver cancer; ds; hepatocellular carcinoma; hepatotropic;
KW metastatic liver tumour; cytostatic; expression profile; disease state;
KW

KW disease progression; drug toxicity; drug efficacy; drug metabolism.
XX Homo sapiens.
XX WO200229103-A2.
XX
XX 11-APR-2002.
XX
XX 02-OCT-2001; 2001WO-US30589.
XX
XX 02-OCT-2000; 2000US-237054P.
XX
XX (GENE-) GENE LOGIC INC.
XX
XX Horne D, Alvares C, Peres-Da-Silva S, Vockley JG;
XX
XX WPI; 2002-426119/45.
XX
XX Diagnosing and detecting the progression of liver cancer,
PT hepatocellular carcinoma or metastatic liver tumor in a patient,
PT involves detecting the level of expression of two or more genes in a
PT liver tissue sample
XX
XX Claim 1; SEQ ID NO 938; 298pp; English.
XX
XX The invention relates to a novel method for diagnosing and detecting the
CC progression of liver cancer, hepatocellular carcinoma or metastatic liver
CC tumour in a patient, and differentiating metastatic liver cancer from
CC hepatocellular carcinoma in a patient, involving detecting the level of
CC expression of two or more genes represented in ABN93503-ABN97455 in a
CC tissue sample. The method of the invention has hepatotropic, and
CC cytostatic activity. The method is useful for diagnosing and detecting
CC the progression of liver cancer, hepatocellular carcinoma and metastatic
CC liver carcinoma in a patient. The method is useful for identifying
CC expression profiles which serve as useful diagnostic markers as well as
CC markers that can be used to monitor disease states, disease progression,
CC drug toxicity, drug efficacy and drug metabolism.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 366 BP; 77 A; 80 C; 119 G; 90 T; 0 other;
Query Match 24.3%; Score 196; DB 24; Length 366;
Best Local Similarity 99.6%; Pred. No. 1.5e-83;
Matches 246; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 357 AGCCTTCACAGCAGTGAGCTGCAATGTTGGAGGGCTTCATCTCGGGTGAAGGACCCCTG 416
Db 366 AGCCTTCACAGCAGTGAGCTGCAATGTTGGAGGGCTTCATCTCGGGTGAAGGACCCCTG 307
Oy 417 GGAAGTTCAGAACTCCAGTCCCTGCTCTCAATTGTCATCACTTCAGAGCTATCA 476
Db 306 GGAAGTTCAGAACTCCAGTCCCTGCTCTCAATTGTCATCACTTCAGAGCTATCA 247
Oy 477 TGAGCCAACTCCACCCACAGGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGAAC 536
Db 246 TGAGCCAACTCCACCCACAGGGCTCAGTCGCCACCATGTGGGCTCTCCAGTGAAC 187
Oy 537 CACCGAGCATTTCCACCATGACCGGTCAAGTCAAGTCAAAATCCAGAGACCATCAATCCTGCTA 596
Db 186 CACCGAGCATTTCCACCATGACCGGTCAAGTCAAGTCAAAATCCAGAGACCATCAATCCTGCTA 127
Oy 597 GAGTGCA 603
Db 126 GAGTGCA 120
RESULT 12
ABN62262/C
ID ABN62262 standard; DNA; 366 BP.
XX
XX AC ABN62262;

XX	15-MAY-2002	(first entry)
XX	DT	
XX	DE	Colon adenocarcinoma related gene sequence SEQ ID NO:599.
XX	XX	
XX	KW	Human; cancer; colon; breast; ovary; cesophagus; kidney; thyroid;
KW	KW	stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW	KW	cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
XX	XX	gene; ds.
XX	OS	Homo sapiens.
XX	XX	
XX	PN	WO200194629-A2.
XX	XX	
PD	13-DEC-2001.	
XX	XX	
XX	30-MAY-2001;	2001WO-US10838.
XX	XX	
PR	05-JUN-2000;	2000US-209473P.
PR	03-JUN-2000;	2000US-209531P.
PR	18-SEP-2000;	2000US-233133P.
PR	18-SEP-2000;	2000US-233617P.
PR	20-SEP-2000;	2000US-234009P.
PR	20-SEP-2000;	2000US-234034P.
PR	20-SEP-2000;	2000US-234052P.
PR	22-SEP-2000;	2000US-234509P.
PR	22-SEP-2000;	2000US-234567P.
PR	25-SEP-2000;	2000US-234923P.
PR	25-SEP-2000;	2000US-234924P.
PR	25-SEP-2000;	2000US-235077P.
PR	25-SEP-2000;	2000US-235082P.
PR	25-SEP-2000;	2000US-235134P.
PR	26-SEP-2000;	2000US-235280P.
PR	26-SEP-2000;	2000US-235637P.
PR	26-SEP-2000;	2000US-235638P.
PR	27-SEP-2000;	2000US-235711P.
PR	27-SEP-2000;	2000US-235720P.
PR	27-SEP-2000;	2000US-235840P.
PR	27-SEP-2000;	2000US-235863P.
PR	28-SEP-2000;	2000US-236028P.
PR	28-SEP-2000;	2000US-236032P.
PR	28-SEP-2000;	2000US-236033P.
PR	28-SEP-2000;	2000US-236034P.
PR	28-SEP-2000;	2000US-236109P.
PR	28-SEP-2000;	2000US-236111P.
PR	29-SEP-2000;	2000US-236842P.
PR	29-SEP-2000;	2000US-236891P.
PR	02-OCT-2000;	2000US-237172P.
PR	02-OCT-2000;	2000US-237173P.
PR	02-OCT-2000;	2000US-237278P.
PR	02-OCT-2000;	2000US-237279P.
PR	02-OCT-2000;	2000US-237295P.
PR	02-OCT-2000;	2000US-237316P.
PR	03-OCT-2000;	2000US-237425P.
PR	03-OCT-2000;	2000US-237598P.
PR	03-OCT-2000;	2000US-237604P.
PR	03-OCT-2000;	2000US-237606P.
PR	03-OCT-2000;	2000US-237608P.
PR	01-NOV-2000;	2000US-244867P.
PR	01-NOV-2000;	2000US-245084P.
XX	XX	
XX	PA	(AVAL-) AVALON PHARM.
XX	XX	
PI	Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;	
PI	Soppet DR, Weaver Z;	
XX	XX	
XX	WPI; 2002-188264/24.	
XX	XX	
PT	Screening for anti-neoplastic agent involves exposing cells to a	
PT	chemical agent to be tested for anti-neoplastic activity, and	
PT	determining a change in expression of a gene of a signature gene set	
XX	XX	
PS	Claim 1; SEQ ID 599; 44pp; English.	

The present invention describes a method (M1) for screening for an anti-neoplastic agent. The method involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, determining a change in expression of at least one gene (I) of a signature gene set, where (I) comprises a sequence (S) selected from 8447 sequences (given in ABL61664 to ABL70110), or is at least 95% identical to (S), where a change in expression is indicative of anti-neoplastic activity. (I) has cytostatic activity and can be used in gene therapy. M1 can be used for screening an anti-neoplastic agent, and can be used for producing a product which is the data collected with respect to the anti-neoplastic agent as a result of M1, and the data is sufficient to convey the chemical structure and/or properties of the agent. M1 can be used in the treatment of cancer such as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney, prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's tumour.

Sequence 366 BP; 77 A; 80 C; 119 G; 90 T; 0 other;

	Query Match	24.3%;	Score 196;	DB 24;	Length 366;
	Best Local Similarity	99.6%;	Pred. No. 1.5e-83;		
Matches	246;	Conservative	0;	Mismatches	1;
				Indels	0;
	Gaps				0;

QY 357 AGCCTTCACAGCAGTGAGCTGCAATGTGTGGAGGCCTTCACTCGGGCTGCAAGGACCCTG 416
| | | | |
Db 366 AGCCTTCACAGCAGTGAGCTGCAATGTGTGGAGGCCTTCACTCGGGCTGCAAGGACCCTG 307
| | | | |
QY 417 GGAAAGTTCCAGAACTCCAGCTCTGTGCTCAATTGTGCCATCAACTTTTCAGAGCTATCA 476
| | | | |
Db 306 GGAAAGTTCCAGAACTCCAGCTCTGTGCTCAATTGTGCCATCAACTTTTCAGAGCTATCA 247
| | | | |
QY 477 TGAGCCAACCTCACCCACAGGGCCCTCAGTCGCCACCATGTGGCCCTCTCCAGTGCACAAC 536
| | | | |
Db 246 TGAGCCAACCTCAACCCACAGGGCCCTCAGTCGCCACCATGTGGCCCTCTCCAGTGCACAAC 187
| | | | |
QY 537 CACCGAGCATTTCCACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTGCTA 596
| | | | |
Db 186 CACCGAGCATTTCCACCATGACCGGTACAGCTACAAATCCAGAGACCATCAATCCTGCTA 127
| | | | |
QY 597 GAGTGCA 603
| | | | |
Db 126 GAGTGCA 120
| | | | |

RESULT 13
ABL67752/C
ID ID ABL67752 standard; DNA; 366 BP.
XX AC ABL67752;
XX DT 15-MAY-2002 (first entry)
XX DE Oesophagus cancer related gene sequence SEQ ID NO:6089.
XX KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
KW gene; ds.
XX OS Homo sapiens.
OS OS
PN WO200194629-A2.
PP PD
XX 13-DEC-2001.
XX 30-MAY-2001; 2001WO-US10838.
XX PF
XX 05-JUN-2000; 2000US-209473P.
PR 05-JUN-2000; 2000US-209531P.
PR 18-SEP-2000; 2000US-233133P.
PR 18-SEP-2000; 2000US-233617P.

CC corresponding gene residues, and in tissue profiling, forensics, genetic
CC analysis, mapping and diagnostic applications. (I) can be used to raise
CC antibodies, and to screen for peptide analogues and antagonists.

XX
SQ Sequence 629 BP; 128 A; 113 C; 149 G; 198 T; 41 other;

Query Match 16.5%; Score 133; DB 24; Length 629;
Best Local Similarity 100.0%; Pred. No. 1.8e-53;
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 633 AAGACTGCAGAGTCTCTCCATCTTCAGTCCATTCAGCTCCCTGGCATTTAACTACCAG 692
Db 167 AAGACTGCAGAGTCTCTCCATCTTCAGTCCATTCAGCTCCCTGGCATTTAACTACCAG 108

Qy 693 CATCAGTGGTCCCAAGGAATCCCTTCTAGCCTCTGACATGATCTGCTGGAAGAG 752
Db 107 CATCAGTGGTCCCAAGGAATCCCTTCTAGCCTCTGACATGATCTGCTGGAAGAG 48

Qy 753 CATCAAAACAAAC 765
Db 47 CATCAAAACAAAC 35

RESULT 15
AAD27026
ID AAD27026 standard; DNA; 4159 BP.
XX
AC AAD27026;
XX
DT 09-APR-2002 (first entry)
XX
DE Human Secreted epithelial colon stromal-1 (Secs-1) gene.
XX
KW Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
KW haematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
KW anorectic; immunomodulator; antipsoriatic; vulnary; antiinfertility;
KW gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
KW human; ds.
XX
OS Homo sapiens.

XX
FH Key
FT CDS
FT 1..4159
FT /tag= a
FT /product= "Human Secs-1 protein"
FT /note= "CDS does not include stop codon"
FT /partial
FT exon
FT 1..69
FT /tag= d
FT /note= "Encodes Secs-1 peptide (AAE16484)"
FT intron
FT 70..2626
FT /tag= d
FT /cons_splice= (5'site:NO, 3'site:NO)
FT exon
FT 2627..2725
FT /tag= d
FT /note= "Encodes Secs-1 peptide (AAE16485)"
FT intron
FT 2726..4075
FT /tag= d
FT /cons_splice= (5'site:NO, 3'site:NO)
FT exon
FT 4076..4159
FT /tag= d
FT /note= "Encodes Secs-1 peptide (AAE16486)"
XX
FN WO200198497-A1.
XX
PD 27-DEC-2001.
XX
PF 28-NOV-2000; 2000WO-US32479.
XX
PR 21-JUN-2000; 2000US-0599087.
PR 28-NOV-2000; 2000US-0724000.

XX (AMGE-) AMGEN INC.
XX Polverino AJ, Luethy R;
XX WPI; 2002-122281/16.
DR P-PSDB; AAE16481, AAE16484, AAE16485, AAE16486.
XX
PT Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
PT useful for diagnosing, treating and preventing hematopoietic disorder,
PT osteoporosis, Paget's disease, cancer, diabetes -
XX Disclosure; Fig 4; 134pp; English.
XX
CC The present invention relates to an isolated murine or human secreted
CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
CC therapy and cell therapy. Secs-1 is useful for identifying a compound
CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
CC preventing or ameliorating a disease condition such as haematopoietic
CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
CC is also useful for diagnosing a pathological condition which involves
CC determining the presence or amount of Secs-1 or polypeptide encoded by
CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
CC susceptibility to pathological condition based on the presence or amount
CC of expression of the polypeptide. The present sequence is human Secs-1
CC gene.
XX
SQ Sequence 4159 BP; 1009 A; 1037 C; 983 G; 1110 T; 20 other;

Query Match 11.5%; Score 93; DB 24; Length 4159;
Best Local Similarity 100.0%; Pred. No. 2.2e-14;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 AGGGAAGAGGCGTCTCTGCCAAGGCTGGTCAGGAGAGAACAGGCTCTCTGCCACCG 156
Db 2634 AGGGAAGAGGCGTCTCTGCCAAGGCTGGTCAGGAGAGAACAGGCTCTCTGCCACCG 2693

Qy 157 AGTCCCTAGCCCCCAACTCAACAACTGAAAGG 189
Db 2694 AGTCCCTAGCCCCCAACTCAACAACTGAAAGG 2726

Search completed: May 17, 2003, 15:58:41
Job time : 276 secs

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GenCore version 5.1.4_p5_4578
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OM protein - nucleic search, using frame_plus_p2n model

Run on: May 17, 2003, 03:39:29 ; Search time 1728 Seconds
(without alignments)
759.163 Million cell updates/sec

Title: US-09-724-000A-5
Perfect score: 442
Sequence: 1 MRLVLSSLLCILLCSIF.....PKLEPRLWVPGALPQV 81

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO_apool/US09724000/runat_16052003_145500_17160/app_query.fasta_1.263
-DB=EST_QPWT-fasCap -SUFFIX=rst -MINMATCH=0.1 -LOOPEL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THR SCORE=spct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptio -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09724000.CGN 1 1 1906 @runat_16052003_145500_17160 -NCPU=6 -ICPU=3
-NO_XLPXY -NO_MWAP -LARGQUERY -NEG SCORES=0 -WAIT -LONGLOG -DEV TIMEOUT=120
-WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hci:*
9: gb_estl:*
10: gb_est2:*
11: gb_hci:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_inv:*
20: em_gss_pln:*
21: em_gss_vrt:*
22: em_gss_fun:*
23: em_gss_mam:*
24: em_gss_mus:*
25: em_gss_othr:*
26: em_gss_pro:*
27: em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	442	100.0	356	10	AW351839
2	418	94.6	503	9	AA422178
3	416	94.1	906	12	BE899580
4	356	80.5	557	14	BQ189412
5	350.5	79.3	399	9	AA283751
6	245	55.4	506	13	BM446173
7	245	55.4	537	12	BF041606
8	228.5	51.7	342	9	AA265120
9	228.5	51.7	436	9	AA840147
10	228.5	51.7	441	9	AA272330
11	228.5	51.7	442	9	AA242158
12	228.5	51.7	447	9	AA265314
13	228.5	51.7	450	10	BB864020
14	228.5	51.7	451	10	AW989615
15	228.5	51.7	452	9	AA222093
16	228.5	51.7	456	9	AA267641
17	228.5	51.7	456	9	AA529197
18	228.5	51.7	462	9	AA017989
19	228.5	51.7	498	9	AA240277
20	228.5	51.7	515	9	AA265055
21	228.5	51.7	515	9	AA274151
22	228.5	51.7	517	9	AA230541
23	228.5	51.7	521	9	AA272697
24	228.5	51.7	523	9	AA272358
25	228.5	51.7	543	9	AA538434
26	228.5	51.7	549	9	AA220337
27	228.5	51.7	554	9	AA538362
28	228.5	51.7	563	9	AA238890
29	228.5	51.7	753	13	BG966710
30	228.5	51.7	758	11	AK012157
31	228.5	51.7	800	14	BQ931917
32	225.5	51.0	456	9	AA498458
33	225.5	51.0	907	12	BF531305
34	220.5	49.9	742	13	BF580801
35	220.5	49.9	765	12	BF580962
36	212.5	48.1	444	9	AA459817
37	205.5	46.5	267	9	AA509491
38	205.5	46.5	304	14	W08316
39	199.5	45.1	529	9	AA463145
40	199	45.0	422	10	AW142726
41	195	44.1	492	10	AW913863
42	195	44.1	510	14	BQ703407
43	195	44.1	531	12	BG374322
44	194.5	44.0	466	9	AA528993
45	182.5	41.3	1044	12	BF582268

ALIGNMENTS

RESULT 1
LOCUS AW351839 356 bp mRNA linear EST 01-FEB-2000
DEFINITION RC1-CT0199-150999-021-A03 CT0199 Homo sapiens cDNA, mRNA sequence.
ACCESSION AW351839
VERSION AW351839.1 GI:6849552
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 356)
AUTHORS HCGP <http://www.ludwig.org.br/ORESTES>.
TITLE The FAPESP/LICR Human Cancer Genome Project
JOURNAL Unpublished (1999)


```

VERSION BE899580.1 GI:10367234
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 906)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
JOURNAL NIH-MGC http://mgc.nci.nih.gov/.
COMMENT National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cga@nih.gov
Tissue Procurement: DCTD/DTP
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LUCM822 row: f column: 12
High quality sequence start: 23
High quality sequence stop: 775.
Location/Qualifiers
FEATURES
source
1..906
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3952523"
/clone_lib="NIH MGC 9"
/tissue_type="adenocarcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: ovary; Vector: pOTB7; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dt priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GCGACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
BASE COUNT 219 a 282 c 219 g 186 t
ORIGIN
Alignment Scores:
Pred. No.: 1.78e-33 Length: 906
Score: 416.00 Matches: 81
Percent Similarity: 97.59% Conservative: 0
Best Local Similarity: 97.59% Mismatches: 0
Query Match: 94.12% Indels: 2
DB: 12 Gaps: 0
US-09-724-000A-5 (1-81) x BE899580 (1-906)
Qy 1 MetArgLeuLeu-VallLeuSerSerLeuLeu-CysIleLeuLeuLeuCysPheSerIleP 20
Db 69 ATGAGGCTTCTAGGTCCTTCCAGCGTCTTCTGTATCTCTGCTTCTGCTTCTCCATCT 128
Qy 20 heSerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuC 40
Db 129 TCTCCACAGAAGGGAAGAGGGCTCTGCTCAAGGCGCTGCTCAGGAGGAGAACAGGCTCT 188
Qy 40 yScyHisArgValProSerProSerProSerProSerProSerProSerProSerProSer 60
Db 189 GCTGCCACCGAGTCCCTTAGCCCCCACTCAACAAACCTCAACAAACCTCAACAAACCTCA 248
Qy 60 yScyProCysLysLeuGluProGluProArgLeuTrpValValProGlyAlaLeuProG 80
Db 249 GTAACCATGCAAGCTTGAGGCGAGAGGCCCCGCTTTGGGTGGTGGTGGTGGTGGTGG 308
Qy 80 InVal 81
Db 309 AGGTG 313
BQ189412
RESULT 4
BQ189412
LOCUS

```

```

DEFINITION UI-E-EJ1-ajv-h-16-0-UI.r1 UI-E-EJ1 Homo sapiens cDNA clone
ACCESSION BQ189412
VERSION BQ189412.1 GI:20364963
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 557)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
JOURNAL NIH-MGC http://mgc.nci.nih.gov/.
COMMENT National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cga@nih.gov
Tissue Procurement: DCTD/DTP
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LUCM822 row: f column: 12
High quality sequence start: 23
High quality sequence stop: 775.
Location/Qualifiers
FEATURES
source
1..557
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="UI-E-EJ1-ajv-h-16-0-UI"
/clone_lib="UI-E-EJ1"
/tissue_type="fetal eyes, lens, eye anterior segment,
optic nerve, retina, Retina foveal and Macular, RPE and
Choroid"
/lab_host="DH10B (Life Technologies) (Ti phage resistant)"
/notes="Organ: eye; Vector: p773-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoR I; Site 2: Not I;
UI-E-EJ1 is a subcloned cDNA library constructed
according to Bonaldo, Lennon and Soares, Genome Research,
6:791-806, 1996. First strand cDNA synthesis was primed
with an oligo-dT primer containing a Not I site. Double
stranded cDNA was ligated to an EcoR I adaptor, digested
with Not I, and cloned directionally into p773-Pac
vector. The oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tags for this library are: fetal eyes, AGAATCAAGA
; lens, CGATTAGGCA; eye anterior segment, AATGCCGAT;
optic nerve, CCATTAGG; retina, CCGG; Retina foveal and
Macular, GTCC; RPE and Choroid, ACCTA. This library was
created for the program, Gene Discovery in the Visual
System, supported by National Eye Institute (NEI)."
BASE COUNT 135 a 182 c 138 g 101 t
ORIGIN
Alignment Scores:
Pred. No.: 1.78e-27 Length: 557
Score: 356.00 Matches: 63
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 80.54% Indels: 0
DB: 14 Gaps: 0
US-09-724-000A-5 (1-81) x BQ189412 (1-557)
Qy 19 IlePheSerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgThrArg 38
Db 1 ATCTTCTCCAGAAGGGAAGAGGGCTCTGCTCAAGGCGCTGCTCAGGAGGAGAACAGG 60

```


US-09-724-000A-5 (1-81) x BM446173 (1-506)

Qy 1 MetArgLeuValLeuSerLeuLeuCysileLeuLeuLeuLeuCysPheSerilePhe 20
 Db 39 ATGAGGCTTCTAATCCTCACCAGCCTGCTGTCATCTCTCTGCTTCTGCTGCTGCTTC 98
 Qy 21 SerThrGluGlyLys-----ArgArgProAlaLysAlaTrpSerGlyArgArgThr 37
 Db 99 TCCGAGAGGAGGAGTACCTGAGGATCATGCCAAGCCCGGAAAGGCAAGCC--- 155
 Qy 38 ArgLeuCysCysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisVal 57
 Db 156 -----TGCTGTCCCGAATTCCTGGCCCTGACCTGATGACCCAGAAAGGACCGTACG 209
 Qy 58 ArgLeuCysLysProCysLysLeuGluProGluProArgLeuTrpValValProGlyVala 77
 Db 210 AGAAACTGCAGACCATGCAAACTCAAGTCAAAGCACCCTTTGGTGGTTCCTGGGGCA 269
 Qy 78 LeuProGlnVal 81
 Db 270 CTCCACAGGTG 281

RESULT 7
 BF041606
 LOCUS
 DEFINITION BP250007A20H3 Soares normalized bovine placenta Bos taurus cDNA
 ACCESSION BF041606
 VERSION BF041606.1 GI:10758652
 KEYWORDS EST.
 SOURCE cow.
 ORGANISM Bos taurus

REFERENCE
 AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 Bovidae; Bovinae; Bos.
 1 (bases 1 to 537)
 Lewin,H.A., Soares,M.B., Rebeiz,M., Pardinas,J., Liu,L. and Larson
 J.H.

TITLE
 JOURNAL Unpublished (2000)
 COMMENT Contact: Lewin, H. A.
 W. M. Keck Center for Comparative and Functional Genomics
 University of Illinois at Urbana-Champaign
 340 Edward R. Madigan Laboratory, 1201 W. Gregory Dr., Urbana, IL
 61801, USA
 Tel: 217 333 5998
 Fax: 217 244 5617
 Email: h-lewin@uiuc.edu

Funding for cattle EST sequencing was provided by the USDA National
 Research Initiative, Animal Genome Resource Grant AG 99-3205-8534
 to H. A. Lewin and J. E. Womack. Base Calling/Quality Scores: PHRED
 from Washington University Genome Center. Vector Trimmi g:
 Cross match from Washington University Genome Center PHRAP suite.
 This sequence is vector free and at least 200 bp in length.

PCR Primers

FORWARD: TAATACGACTCACTATAGGG

BACKWARD: ATTAACCTCACTAAAG

Insert Length: 537 Std Error: 0.00

Plate: BP250007A20 row: H column: 3

Seq primer: AGCGATAACAATTCACAGGA

High quality sequence stop: 537.

Location/Qualifiers

1. .537

/organism="Bos taurus"

/db xref="taxon:9913"

/clone="BP250007A20H3"

/clone_lib="Soares normalized bovine placenta"

/sex="female"

/lab host="DH10B"

/note="Organ: placenta; Vector: pT73Pac; Site 1: EcoRI;

Site 2: NotI; The cDNA library was contributed by the

Soares laboratory and it was constructed and normalized

as described by Bonaldo, M.F., Lennon, G. and Soares,

BASE COUNT 128 a 166 c 120 g 122 t 1 others
 ORIGIN

Alignment Scores: 7.81e-16 Length: 537
 Score: 245.00 Matches: 48
 Percent Similarity: 69.05% Conservative: 10
 Best Local Similarity: 57.14% Mismatches: 20
 Query Match: 55.43% Indels: 6
 DB: 12 Gaps: 2

US-09-724-000A-5 (1-81) x BF041606 (1-537)

Qy 1 MetArgLeuValLeuSerLeuLeuCysileLeuLeuLeuLeuCysPheSerilePhe 20
 Db 28 ATGAGGCTTCTAATCCTCACCAGCCTGCTGTCATCTCTGCTTCTGCTGCTGCTTC 87
 Qy 21 SerThrGluGlyLys-----ArgArgProAlaLysAlaTrpSerGlyArgArgThr 37
 Db 88 TCCGAGAGGAGGAGTACCTGAGGATCATGCCAAGCCCGGAAAGGCAAGCC--- 144
 Qy 38 ArgLeuCysCysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisVal 57
 Db 145 -----TGCTGTCCCGAATTCCTGGCCCTGACCTGATGACCCAGAAAGGACCGTACG 198
 Qy 58 ArgLeuCysLysProCysLysLeuGluProGluProArgLeuTrpValValProGlyVala 77
 Db 199 AGAACTGCAGACCATGCAAACTCAAGTCAAAGCACCCTTTGGTGGTTCCTGGGGCA 258
 Qy 78 LeuProGlnVal 81
 Db 259 CTCCACAGGTG 270

RESULT 8
 AA265120
 LOCUS
 DEFINITION mz46910.r1 Barstead mouse pooled organs MPLRB4 Mus musculus cDNA
 clone IMAGE:716514 5', mRNA sequence.

ACCESSION AA265120.1 GI:1901208

VERSION AA265120

KEYWORDS EST.

SOURCE house mouse.

ORGANISM Mus musculus

REFERENCE
 AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 342)

Marrs,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,

Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,

Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,

Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and

Waterston,R.

The WashU-HMI Mouse EST Project

Unpublished (1996)

Contact: Marra M/Mouse EST Project

WashU-HMI Mouse EST Project

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: mouseest@watson.wustl.edu

This clone is available royalty-free through LLNL; contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

MGI:442010

Seq primer: -28m13 rev2 ET from Amersham

High quality sequence stop: 329.

Location/Qualifiers

1. .342

/organism="Mus musculus"

/strain="FVB/N"

/db xref="taxon:10090"

/clone="IMAGE:716514"

/clone_lib="Barstead mouse pooled organs MPLRB4"


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MGI:938566
Seq primer: -40RP from Gibco
High quality sequence stop: 451.
Location/Qualifiers
1. .451
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:1511714"
/clone_lib="Soares_mammary_gland_NMLMG"
/sex="female (lactating)"
/tissue_type="mammary gland"
/lab_host="DH10B"
note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from mammary
gland tissue from a lactating female, and was then primed
with a Not I - oligo(GT) primer. Double-stranded cDNA was
ligated to Eco RI adaptors (Pharmacia), digested with Not
I and cloned into the Not I and Eco RI sites of the
modified pT7T3 vector. Library is normalized. Library
was constructed by Bento Soares and M. Fatima Bonaldo."
105 a 137 c 102 g 107 t
BASE COUNT

```

Alignment Scores:	
Pred. No.:	3,28e-14
Score:	228.50
Percent Similarity:	67.90%
Best Local Similarity:	55.56%
Query Match:	51.70%
DB:	10
Length:	450
Matches:	45
Conservative:	10
Mismatches:	23
Indels:	3
Gaps:	1

Qy	1	MethArgLeuValLeuSerSerLeuLeuCysAlIleLeuLeuLeuCysPheSerIlePhe	20
Db	57	ATGAGACTTCCTAGCCCTTTCGGGTCTCTCGATGCTGCTCTCTGTTTCTGCATTTC	116
Qy	21	SerThrGluLyLysArgAAGProAlaLysAlatrpSerGlyArgArghThrArgLeuCys	40
Db	117	TCTCAGAAGGGAGAACACATCTCGCAAGTCTTGAACTCAGGCC-----TGC	167
Qy	41	CyeHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCys	60
Db	168	TGTCACCATACTCTCTAGATCCAAGCTGACAACCTGGAAAGAAAACACACAGGCCCTGC	227
Qy	61	LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln	80
Db	228	AGACTCTGCAGAAACAAGCTACCAGTCAATGGGTGGTGCCTGGGGCTCTCCCACAG	287
Qy	81	Val	81
		:::	
Db	288	ATA	290

RESULT 14
AW989615 LOCUS
DEFINITION
u18c02.y1 Soares mammary gland_NMLMG Mus musculus cDNA clone
IMAGE:1511714 5', mRNA sequence.
ACCESSION AW989615
VERSION AW989615.1
KEYWORDS GI:8185064
EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 451)
AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@email.nih.gov
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.

RESULT 15	AA222093	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL
0.	AA222093	my29b11.r1	Barstead mouse pooled organs MPLRB4 Mus musculus CDNA	AA222093	AA222093.1	GI:1841618	house mouse.	Mus musculus	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 452)	Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Weising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.	The WashU-HHMI Mouse EST Project	Unpublished (1996)

GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: May 16, 2003, 15:35:10 ; Search time 20 Seconds
(without alignments)
390.626 Million cell updates/sec

Title: US-09-724-000A-5
Perfect score: 81
Sequence: 1 MRLVLSSLLCILLCSIF.....PKLEPEPRLWVFGALPQV 81

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 362588 seqs, 96450795 residues

Word size : 0

Total number of hits satisfying chosen parameters: 47966

Minimum DB seq length: 23

Maximum DB seq length: 80

Post-processing: Listing first 45 summaries

Database : Published Applications AA:
1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pdb.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pdb.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pdb.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pdb.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pdb.*
6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pdb.*
7: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pdb.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pdb.*
9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pdb.*
10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pdb.*
11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pdb.*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pdb.*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pdb.*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pdb.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6	7.4	28	9	US-09-749-637A-265
2	6	7.4	54	10	US-09-864-761-47036
3	6	7.4	65	9	US-10-091-504-786
4	6	7.4	65	10	US-09-764-869-786
5	6	7.4	72	10	US-09-864-761-36193
6	6	7.4	78	10	US-09-864-761-37299
7	6	7.4	79	9	US-10-083-357-1164
8	5	6.2	23	8	US-08-424-5508-400
9	5	6.2	24	9	US-09-843-221A-132
10	5	6.2	24	9	US-09-843-221A-142
11	5	6.2	24	9	US-10-150-111-127
12	5	6.2	24	10	US-09-242-980-15
13	5	6.2	24	12	US-10-001-879-157
14	5	6.2	25	9	US-09-989-920-214
15	5	6.2	26	10	US-09-925-300-1735
16	5	6.2	27	9	US-10-083-357-1099
17	5	6.2	27	10	US-09-864-761-39998
18	5	6.2	27	10	US-09-864-761-40419
19	5	6.2	27	10	US-09-911-888-8

20	5	6.2	28	9	US-09-843-221A-96
21	5	6.2	28	9	US-09-843-221A-106
22	5	6.2	28	10	US-09-864-761-41850
23	5	6.2	29	9	US-09-362-179-5
24	5	6.2	29	10	US-09-864-761-44425
25	5	6.2	30	9	US-09-843-221A-127
26	5	6.2	30	9	US-09-843-221A-137
27	5	6.2	30	9	US-09-843-221A-156
28	5	6.2	30	12	US-10-127-318-5
29	5	6.2	31	10	US-09-142-755-10
30	5	6.2	32	9	US-09-983-802-207
31	5	6.2	32	10	US-09-922-261-157
32	5	6.2	32	10	US-09-049-695A-20
33	5	6.2	33	10	US-09-975-901-17
34	5	6.2	34	9	US-09-843-221A-91
35	5	6.2	34	9	US-09-843-221A-101
36	5	6.2	34	9	US-09-843-221A-120
37	5	6.2	35	10	US-09-864-761-44044
38	5	6.2	35	10	US-09-922-261-155
39	5	6.2	36	9	US-09-764-891-2801
40	5	6.2	36	10	US-09-864-761-35960
41	5	6.2	36	10	US-09-864-761-36141
42	5	6.2	36	10	US-09-867-852-20
43	5	6.2	37	10	US-09-242-980-14
44	5	6.2	38	9	US-09-984-345-207
45	5	6.2	38	9	US-09-966-362-207

ALIGNMENTS

RESULT 1
US-09-749-637A-265
; Sequence 265, Application US/09749637A
; Patent No. US2002017349A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Cartier, G. Edward
; APPLICANT: Watkins, Maren
; APPLICANT: Hillyard, David R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Layer, Richard T.
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: O-Superfamily Conotoxin Peptides
; FILE REFERENCE: 2314-227
; CURRENT APPLICATION NUMBER: US/09749,637A
; CURRENT FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/243,412
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US60/219,440
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: US 60/214,263
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: US 60/173,754
; PRIOR FILING DATE: 1999-12-30
; NUMBER OF SEQ ID NOS: 409
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 265
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Conus deleasserti
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)...(28)
; OTHER INFORMATION: Xaa at residues 4 and 14 may be Pro or hydroxy-Pro; Xaa at residues 15 and 21 may be Glu or gamma-carboxy-Glu; Xaa at residues 15 and 21 may be Tyr, 125-I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr
US-09-749-637A-265

Query Match 7.4%; Score 6; DB 9; Length 28;

Best Local Similarity 100.0%; Pred. No. 51;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 CILLIC 16
| | | | |
Db 22 CILLIC 27

RESULT 2
US-09-864-761-47036
; Sequence 47036, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aemica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 47036
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC005317.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.77
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.64
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.59
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.68
; OTHER INFORMATION: EST_HUMAN HIT: AW500861.1, EVALUATE 2.00e-15
US-09-864-761-47036

Query Match 7.4%; Score 6; DB 10; Length 54;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LVLSS 8
| | | | |
Db 35 LVLSS 40

RESULT 3
US-10-091-504-786
; Sequence 786, Application US/10091504
; Publication No. US20030059908A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007C1
; CURRENT APPLICATION NUMBER: US/10/091,504
; CURRENT FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 2442
; Prior Application removed - See File Wrapper or Palm
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 786
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (17)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: misc_feature
; LOCATION: (58)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-091-504-786

Query Match 7.4%; Score 6; DB 9; Length 65;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LVLSS 8
| | | | |
Db 6 LVLSS 11

RESULT 4
US-09-764-869-786
; Sequence 786, Application US/09764869
; Patent No. US20020061521A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007
; CURRENT APPLICATION NUMBER: US/09/764,869
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 786
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (17)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (58)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-869-786

Query Match 7.4%; Score 6; DB 10; Length 65;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LVLSS 8
| | | | |
Db 6 LVLSS 11

RESULT 5
US-09-864-761-36193
; Sequence 36193, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
SEQ ID NO 36193
LENGTH: 72
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC012127.1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.2
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.2
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.2
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.2

; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.5
; OTHER INFORMATION: SWISSPROT HIT: O61608, EVALUE 7.60e+00
; OTHER INFORMATION: EST_HUMAN HIT: BE789526.1, EVALUE 8.10e-01
US-09-864-761-36193
Query Match 7.4%; Score 6; DB 10; Length 72;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 10 LCILL 15
Db 1 LCILL 6
| | | | |
| | | | |
RESULT 6
US-09-864-761-37299
; Sequence 37299, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
SEQ ID NO 37299
LENGTH: 78
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC010906.2
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.9

; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3.4
 ; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.5
 ; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.9
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.9
 ; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2.6
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.8
 ; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3
 ;
 US-09-864-761-37299

Query Match 7.4%; Score 6; DB 10; Length 78;
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LVLSS 8
 Db 71 LVLSS 76

RESULT 7
 US-10-083-357-1164
 ; Sequence 1164, Application US/10083357
 ; Publication No. US20030054370A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Qiangong Zeng et al.
 ; TITLE OF INVENTION: Systemic Discovery of New Genes
 ; FILE REFERENCE: 032796-090
 ; CURRENT APPLICATION NUMBER: US/10/083.357
 ; CURRENT FILING DATE: 2002-02-27
 ; NUMBER OF SEQ ID NOS: 1346
 ; SEQ ID NO 1164
 ; LENGTH: 79
 ; TYPE: PRT
 ; ORGANISM: Saccharomyces cerevisiae
 ;
 US-10-083-357-1164

Query Match 7.4%; Score 6; DB 9; Length 79;
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RLLVLS 7
 Db 67 RLLVLS 72

RESULT 8
 US-08-424-550B-400
 ; Sequence 400, Application US/08424550B
 ; Patent No. US20020119447A1
 ; GENERAL INFORMATION:
 ; APPLICANT: JOHN N. SIMONS
 ; APPLICANT: TAMI J. PILOT-MATIAS
 ; APPLICANT: GEORGE J. DAWSON
 ; APPLICANT: GEORGE G. SCHLAUDER
 ; APPLICANT: SURESH M. DESAI
 ; APPLICANT: THOMAS P. LEARY
 ; APPLICANT: ANTHONY SCOTT MUEHRHOFF
 ; APPLICANT: JAMES C. ERKER
 ; APPLICANT: SHERI L. BUIJK
 ; APPLICANT: ISA K. MUSHAWAR
 ; TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
 ; NUMBER OF SEQUENCES: 716
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ABBOTT LABORATORIES D377/AP6D
 ; STREET: 100 ABBOTT PARK ROAD
 ; CITY: ABBOTT PARK
 ; STATE: IL
 ; COUNTRY: USA
 ; ZIP: 60064-3500
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/424,550B
 ; FILING DATE:
 ; CLASSIFICATION: 435435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: POREMBSKI, PRISCILLA E.
 ; REGISTRATION NUMBER: 33,207
 ; REFERENCE/DOCKET NUMBER: 5527.PC.01
 ; TELEPHONE: 708-937-6365
 ; TELEFAX: 708-938-2623
 ; INFORMATION FOR SEQ ID NO: 400:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 23 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ;
 US-08-424-550B-400

Query Match 6.2%; Score 5; DB 8; Length 23;
 Best Local Similarity 100.0%; Pred. No. 4e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 24 GKRRP 28
 Db 8 GKRRP 12

RESULT 9
 US-09-843-221A-132
 ; Sequence 132, Application US/09843221A
 ; Publication No. US20030039654A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KOSTENUK, PAUL
 ; APPLICANT: LIU, CHUAN-FA
 ; APPLICANT: LACEY, DAVID LEE
 ; TITLE OF INVENTION: MODULATORS OF RECEPTORS FOR PARATHYROID HORMONE AND PARATHYROID
 ; TITLE OF INVENTION: RELATED PROTEIN
 ; FILE REFERENCE: A-665B
 ; CURRENT APPLICATION NUMBER: US/09/843,221A
 ; CURRENT FILING DATE: 2001-04-26
 ; PRIOR APPLICATION NUMBER: 60/266,673
 ; PRIOR FILING DATE: 2001-02-06
 ; PRIOR APPLICATION NUMBER: 60/214,860
 ; PRIOR FILING DATE: 2000-06-28
 ; PRIOR APPLICATION NUMBER: 60/200,053
 ; PRIOR FILING DATE: 2000-04-27
 ; NUMBER OF SEQ ID NOS: 170
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 132
 ; LENGTH: 24
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: modified human PTH
 ;
 US-09-843-221A-132

Query Match 6.2%; Score 5; DB 9; Length 24;
 Best Local Similarity 100.0%; Pred. No. 4.1e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LSSLL 10
 Db 18 LSSLL 22

RESULT 10
 US-09-843-221A-142
 ; Sequence 142, Application US/09843221A
 ; Publication No. US20030039654A1


```

; GENERAL INFORMATION:
; APPLICANT: KOSTENUK, PAUL
; APPLICANT: LIU, CHUAN-FA
; APPLICANT: LACEY, DAVID LEE
; TITLE OF INVENTION: MODULATORS OF RECEPTORS FOR PARATHYROID HORMONE AND PARATHYROID H
; TITLE OF INVENTION: RELATED PROTEIN
; FILE REFERENCE: A-665B
; CURRENT APPLICATION NUMBER: US/09/843,221A
; CURRENT FILING DATE: 2001-04-26
; PRIOR APPLICATION NUMBER: 60/266,673
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: 60/214,860
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/200,053
; PRIOR FILING DATE: 2000-04-27
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 142
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: modified human PTHrP
US-09-843-221A-142

Query Match          6.2%; Score 5; DB 9; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      6 LSSLL 10
Db      18 LSSLL 22

RESULT 11
US-10-150-111-127
; Sequence 127, Application US/10150111
; Publication No. US20030078386A1
; GENERAL INFORMATION:
; APPLICANT: Rubin et al.
; TITLE OF INVENTION: Secreted Protein HPEAD48
; FILE REFERENCE: P2018P1D1
; CURRENT APPLICATION NUMBER: US/10/150,111
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: 09/288,143
; PRIOR FILING DATE: 1999-04-08
; PRIOR APPLICATION NUMBER: PCT/US98/21142
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/061,453
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/061,529
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/071,498
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/061,527
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/061,536
; PRIOR FILING DATE: 1997-10-09
; PRIOR APPLICATION NUMBER: 60/061,532
; PRIOR FILING DATE: 1997-10-09
; NUMBER OF SEQ ID NOS: 219
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 127
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-150-111-127

Query Match          6.2%; Score 5; DB 9; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 LVLSS 8
Db      12 LVLSS 16
```

```

Db      9 LVLSS 13

RESULT 12
US-09-242-980-15
; Sequence 15, Application US/09242980
; Patent No. US20010021073A1
; GENERAL INFORMATION:
; APPLICANT: Ogi, Kasuhiro
; APPLICANT: Onda, Haruo
; TITLE OF INVENTION: NOVEL PROTEIN, ITS PRODUCTION AND USE
; FILE REFERENCE: 2417USOP
; CURRENT APPLICATION NUMBER: US/09/242,980
; CURRENT FILING DATE: 1999-02-28
; PRIOR APPLICATION NUMBER: PCT/JP97/03194
; PRIOR FILING DATE: 1997-08-10
; PRIOR APPLICATION NUMBER: JP 8-240880
; PRIOR FILING DATE: 1996-09-11
; PRIOR APPLICATION NUMBER: JP 8-318049
; PRIOR FILING DATE: 1996-11-28
; PRIOR APPLICATION NUMBER: JP 9-135633
; PRIOR FILING DATE: 1997-05-27
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE:
; SEQ ID NO 15
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Human
US-09-242-980-15

Query Match          6.2%; Score 5; DB 10; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      74 VP GAL 78
Db      10 VP GAL 14

RESULT 13
US-10-001-879-157
; Sequence 157, Application US/10001879
; Patent No. US20020127237A1
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Herve
; APPLICANT: Caferkey, Robert
; APPLICANT: Ali, Shujath
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Prostate Specific Genes and
; FILE REFERENCE: DEX-0281
; CURRENT APPLICATION NUMBER: US/10/001,879
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/252,188
; PRIOR FILING DATE: 2000-11-21
; NUMBER OF SEQ ID NOS: 201
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 157
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-001-879-157

Query Match          6.2%; Score 5; DB 12; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 LVLSS 8
Db      12 LVLSS 16
```

RESULT 14

US-09-989-920-214
; Sequence 214, Application US/09989920
; Patent NO. US20020172957A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Herve
; APPLICANT: Chen, Sei-yu
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and Proteins
; FILE REFERENCE: DEX-0291
; CURRENT APPLICATION NUMBER: US/09/989,920
; CURRENT FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/252,500
; PRIOR FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 214
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-989-920-214

Query Match 6.2%; Score 5; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 6 LSSLL 10
|
|
|
|
Db 20 LSSLL 24

RESULT 15

US-09-925-300-1735
; Sequence 1735, Application US/09925300
; Patent NO. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1735
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-300-1735

Query Match 6.2%; Score 5; DB 10; Length 26;
Best Local Similarity 100.0%; Pred. No. 4.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 43 RVPSP 47
|
|
|
|
Db 4 RVPSP 8

Search completed: May 16, 2003, 15:36:37
Job time : 29 secs

GenCore version 5.1.4 ps.4578
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OM protein - protein search, using sw model

Run on: May 16, 2003, 15:34:10 ; Search time 16 Seconds
(without alignments)
486.681 Million cell updates/sec

Title: US-09-724-000A-5
Perfect score: 81
Sequence: 1 MRLVLSSLLCILLCSIF.....PCKLEPRLWVVGALPQV 81

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 283224 seqs, 96134422 residues

Word size : 0

Total number of hits satisfying chosen parameters: 21742

Minimum DB seq length: 23

Maximum DB seq length: 80

Post-processing: Listing first 45 summaries

Database : PIR 73.*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6	7.4	52	2 G84477	hypothetical prote
2	6	7.4	77	2 T49620	hypothetical prote
3	6	7.4	79	2 A82667	single-stranded DN
4	5	6.2	23	2 D33174	trimatin - wheat (
5	5	6.2	26	2 D49533	T-cell receptor be
6	5	6.2	26	2 C33174	avematin - oat (fr
7	5	6.2	26	2 A15277	hemoglobin alpha c
8	5	6.2	28	2 PH0231	T-cell receptor Vb
9	5	6.2	29	2 E47719	house-dust-mite-re
10	5	6.2	29	2 S58390	T-cell receptor be
11	5	6.2	31	2 PH0236	T-cell receptor Vb
12	5	6.2	33	2 I52083	major acute phase
13	5	6.2	35	2 P50128	H-2 class I histoc
14	5	6.2	41	2 B81140	50S ribosomal prot
15	5	6.2	41	2 D82269	probable ribosomal
16	5	6.2	41	2 E82556	50S ribosomal prot
17	5	6.2	42	2 D30603	T-cell receptor be
18	5	6.2	44	2 S17573	thauartin-like pro
19	5	6.2	47	2 AG0380	probable ribosomal
20	5	6.2	47	2 S70809	pilC-like protein
21	5	6.2	49	2 S13077	hypothetical prote
22	5	6.2	51	2 G84217	hypothetical prote
23	5	6.2	54	2 T42306	hypothetical prote
24	5	6.2	59	2 S01877	NADH2 dehydrogenas
25	5	6.2	59	4 T07378	probable hydroxyme
26	5	6.2	61	2 C30603	T-cell receptor be
27	5	6.2	61	2 AB1587	transcription regu
28	5	6.2	61	2 C69260	hypothetical prote
29	5	6.2	61	2 S21942	surface lectin, 17

30	5	6.2	61	2 AI3331	chiM protein [impo
31	5	6.2	62	2 S30239	hypothetical prote
32	5	6.2	62	2 H81337	probable periplasm
33	5	6.2	63	2 D82547	hypothetical prote
34	5	6.2	63	2 H89761	hypothetical prote
35	5	6.2	63	2 AC2553	hypothetical prote
36	5	6.2	64	2 E81078	hypothetical prote
37	5	6.2	64	2 S01103	hypothetical prote
38	5	6.2	66	2 T12638	homeotic protein H
39	5	6.2	66	2 D72580	hypothetical prote
40	5	6.2	68	2 D27578	T-cell receptor be
41	5	6.2	68	2 S52778	T-cell receptor be
42	5	6.2	68	2 A88950	protein K09B5.10 [
43	5	6.2	68	2 H85826	hypothetical prote
44	5	6.2	68	2 AG3335	hypothetical prote
45	5	6.2	69	2 G95002	hypothetical prote

ALIGNMENTS

RESULT 1

G84477
hypothetical protein At2g06480 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 02-Feb-2001
C;Accession: G84477
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.,
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Unayam, L.; Tallon, L.
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.W.; Venter,
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: G84477
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-52 <STO>
A;Cross-references: GB:AE002093; NID:g4584353; PIDN:AAD25147.1; GSPDB:GN00139
C;Genetics:
A;Gene: At2g06480
A;Map position: 2

Query Match 7.4%; Score 6; DB 2; Length 52;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 74 VPGALP 79
Db 2 VPGALP 7

RESULT 2

T49620
hypothetical protein B5022.20 [imported] - Neurospora crassa
C;Species: Neurospora crassa
C;Date: 02-Jun-2000 #sequence_revision 02-Jun-2000 #text_change 02-Jun-2000
C;Accession: T49620
R;Schulte, U.; Align, V.; Hoheisel, J.; Brandt, P.; Fartmann, B.; Holland, R.; Nyakatura
submitted to the Protein Sequence Database, May 2000
A;Reference number: Z25022
A;Accession: T49620
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-77 <SCH>
A;Cross-references: EMBL:ALJ55932; GSPDB:GN00116; NCSP:B5022.20
A;Experimental source: BAC clone B5022; strain OR74A
C;Genetics:
A;Gene: NCSP:B5022.20
A;Map position: 6
A;Introns: 35/2

Query Match 7.4%; Score 6; DB 2; Length 77;
Best Local Similarity 100.0%; Pred. No. 77;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 LCILL 15

Db 62 LCILL 67

RESULT 3

A82667 single-stranded DNA binding protein XF158 [imported] - Xylella fastidiosa (strain 9a5c)

C:Species: Xylella fastidiosa

C>Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 17-Nov-2000

C:Accession: A82667

R:anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequen

Nature 406, 151-157, 2000

A>Title: The genome sequence of the plant pathogen Xylella fastidiosa.

A:Reference number: A82515; MUID:20365717; PMID:10910347

A>Note: for a complete list of authors see reference number A59328 below

A:Accession: A82667

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-79 <SIM>

A:Cross-references: GB:A8003985; GB:A8003849; NID:G9106593; PIDN:AAP84367.1; GSPDB:GN001

A:Experimental source: strain 9a5c

R:Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; A

Bioness, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H

as-Neto, E.; Docena, C.; El-Dorzy, H.; Facincani, A.P.; Ferreira, A.J.S.

submitted to GenBank, June 2000

A:Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franco, S.C.; Franco, M.C.; Frohm

J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laig

Chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Marino, C.L.; Marques, M.V.; Martins, E

A:Authors: Martins, E.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.

A.F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A

Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawasak

A:Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silveir

M.; Tshako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z

A:Reference number: A59328

A:Contents: annotation

C:Genetics:

A:Gene: XF1558

C:Superfamily: bacterial single-stranded DNA-binding protein; single-stranded DNA-bindin

Query Match 7.4%; Score 6; DB 2; Length 79;

Best Local Similarity 100.0%; Pred. No. 78;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 26 RRPKA 31

Db 53 RRPKA 58

RESULT 4

D33174 trimatin - wheat (fragment)

C:Species: Triticum aestivum (common wheat)

C>Date: 31-May-1991 #sequence_revision 31-May-1991 #text_change 12-Apr-1995

C:Accession: D33174

R:Vigers, A.J.; Roberts, W.K.; Selitrennikoff, C.P.

submitted to the Protein Sequence Database, May 1991

A:Reference number: A33174

A:Accession: D33174

A>Status: preliminary

A:Molecule type: protein

A:Residues: 1-23 <VIG>

C:Superfamily: thaumatin I

Query Match 6.2%; Score 5; DB 2; Length 23;

Best Local Similarity 100.0%; Pred. No. 3.1e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 75 PGALP 79

Db 15 PGALP 19

RESULT 5

D49533

T-cell receptor beta chain (V-D-J region, clone HD8, LCMV-specific) - mouse (fragment)

N:Alternate names: lymphocytic choriomeningitis virus-specific T-cell receptor beta cha

C:Species: Mus musculus (house mouse)

C>Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change 30-May-1997

C:Accession: D49533

R:Horwitz, M.S.; Yanagi, Y.; Oldstone, M.B.

J. Virol. 68, 352-357, 1994

A>Title: T-cell receptors from virus-specific cytotoxic T lymphocytes recognizing a sin

A:Reference number: A49533; MUID:94076427; PMID:7504738

A:Accession: D49533

A>Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-26 <HOR>

A:Experimental source: BALB/c, cytotoxic T lymphocytes

A>Note: sequence extracted from NCBI backbone (NCBIN:142930, NCBIPI:142931)

C:Superfamily: immunoglobulin V region; immunoglobulin homology

C:Keywords: T-cell receptor

Query Match 6.2%; Score 5; DB 2; Length 26;

Best Local Similarity 100.0%; Pred. No. 3.4e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RLLVL 6

Db 19 RLLVL 23

RESULT 6

C33174

avenatin - oat (fragment)

C:Species: Avena sativa (oat)

C>Date: 31-May-1991 #sequence_revision 31-May-1991 #text_change 12-Apr-1995

C:Accession: C33174

R:Vigers, A.J.; Roberts, W.K.; Selitrennikoff, C.P.

submitted to the Protein Sequence Database, May 1991

A:Reference number: A33174

A>Status: preliminary

A:Molecule type: protein

A:Residues: 1-26 <VIG>

C:Superfamily: thaumatin I

Query Match 6.2%; Score 5; DB 2; Length 26;

Best Local Similarity 100.0%; Pred. No. 3.4e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 75 PGALP 79

Db 15 PGALP 19

RESULT 7

I55277

hemoglobin alpha chain thalassemia mutant Brooklyn - human (fragment)

C:Species: Homo sapiens (man)

C>Date: 24-May-1996 #sequence_revision 31-May-1996 #text_change 20-Apr-2000

C:Accession: I55277

R:Safaya, S.; Rieder, R.F.

J. Biol. Chem. 263, 4328-4332, 1988

A>Title: Dysfunctional alpha-globin gene in hemoglobin H disease in blacks. A dinucleot

A:Reference number: I55277; MUID:98153756; PMID:2831226

A:Accession: I55277

A:Molecule type: DNA

A:Residues: 1-26 <SAF>

A:Cross-references: GB:M22814; NID:g183799; PIDN:AAA52631.1; PID:g183801

A>Note: Genbank entry HUMHBADY2 repeats the normal sequence, which was not redetermined

C:Genetics:

A:Gene: GDB:HBA2

A:Cross-references: GDB:119294; OMIM:141850

A;Map position: 16p13.3-16p13.3

Query Match 6.2%; Score 5; DB 4; Length 26;
Best Local Similarity 100.0%; Pred. No. 3.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 67 PEPRL 71
|||||
Db 19 PEPRL 23

RESULT 8

PH0231
T-cell receptor Vb CDR3, carrier PBL Vb 6.sbt - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 10-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 30-May-1997
C;Accession: PH0231
R;Hara, H.; Morita, M.; Iwaki, T.; Hatae, Y.; Kitamoto, T.; Akizuki, S.; Goto, submitted to JIPID, June 1994
A;Description: Detection of HTLV-I proviral DNA and analysis of T cell receptor Vb CDR3
A;Reference number: PH0227
A;Accession: PH0231
A;Molecule type: mRNA
A;Residues: 1-28 <HAR>
A;Experimental source: spinal cord
C;Genetics:
A;Map position: 7
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: receptor

Query Match 6.2%; Score 5; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 3.6e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RLLVL 6
|||||
Db 19 RLLVL 23

RESULT 9

E47719
house-dust-mite-reactive T-cell receptor beta chain (CD4+ clone DE26, V(D)J junctional
C;Species: Homo sapiens (man)
C;Date: 16-Feb-1994 #sequence_revision 18-Nov-1994 #text_change 30-May-1997
C;Accession: E47719
R;Wedderburn, L.R.; O'Hehir, R.E.; Hewitt, C.R.; Lamb, J.R.; Owen, M.J.
Proc. Natl. Acad. Sci. U.S.A. 90, 8214-8218, 1993
A;Title: In vivo clonal dominance and limited T-cell receptor usage in human CD4+ T-cell
A;Reference number: A47719; MUID:93376774; PMID:8367485
A;Accession: E47719
A;Status: preliminary
A;Molecule type: nucleic acid
A;Residues: 1-29 <WED>
A;Note: sequence extracted from NCBI backbone (NCBIN:137825, NCBIPI:137831)
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: T-cell receptor

Query Match 6.2%; Score 5; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. No. 3.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RLLVL 6
|||||
Db 21 RLLVL 25

RESULT 10

S58390
T-cell receptor beta-chain Vb6-Jb2.5 - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 29-Nov-1995 #sequence_revision 01-Mar-1996 #text_change 23-Jul-1999
C;Accession: S58390
R;Johnston, S.L.; Straubeauch, M.; Sarkar, G.; Wettstein, P.J.

Nucleic Acids Res. 23, 3074-3075, 1995

A;Title: A novel method for sequencing members of multi-gene families.
A;Reference number: S58384; MUID:95388532; PMID:7659534
A;Accession: S58390
A;Status: preliminary; nucleic acid sequence not shown
A;Molecule type: mRNA
A;Residues: 1-29 <JOH>
A;Cross-references: EMBL:U20304; NID:G663131; PIDN:AAA62251.1; PID:G663132
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, January 1995
A;Note: only a part of the coding sequence is given
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: T-cell receptor

Query Match 6.2%; Score 5; DB 2; Length 29;
Best Local Similarity 100.0%; Pred. No. 3.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RLLVL 6
|||||
Db 25 RLLVL 29

RESULT 11

PH0236
T-cell receptor Vb CDR3, Ctr2 TCR Vb12 CDR 3aa.sbt - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 10-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 09-May-1997
C;Accession: PH0236
R;Hara, H.; Morita, M.; Iwaki, T.; Hatae, Y.; Kitamoto, T.; Akizuki, S.; Goto, submitted to JIPID, June 1994
A;Description: Detection of HTLV-I proviral DNA and analysis of T cell receptor Vb CDR3
A;Reference number: PH0227
A;Accession: PH0236
A;Molecule type: mRNA
A;Residues: 1-31 <HAR>
A;Experimental source: spinal cord
C;Genetics:
A;Map position: 7
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: receptor

Query Match 6.2%; Score 5; DB 2; Length 31;
Best Local Similarity 100.0%; Pred. No. 3.9e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RLLVL 6
|||||
Db 22 RLLVL 26

RESULT 12

I52083
major acute phase protein - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 20-Aug-1999
C;Accession: I52083
R;Anderson, K.P.; Martin, A.D.; Heath, E.C.
Arch. Biochem. Biophys. 233, 624-635, 1994
A;Title: Rat major acute-phase protein: Biosynthesis and characterization of a cDNA clone
A;Reference number: I52083; MUID:85021400; PMID:6207775
A;Accession: I52083
A;Status: preliminary; translated from GB/EMBL/DBDJB
A;Molecule type: mRNA
A;Residues: 1-33 <RES>
A;Cross-references: GB:M26758; NID:G205301; PIDN:AAA41567.1; PID:G205302
C;Superfamily: kininogen; cystatin homology

Query Match 6.2%; Score 5; DB 2; Length 33;
Best Local Similarity 100.0%; Pred. No. 4.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 ILLLC 16
|||||

Db 2 ILLC 6

RESULT 13

PS0128

H-2 class I histocompatibility antigen T10 - mouse (fragment)

C:Species: Mus musculus (house mouse)

C>Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 12-Apr-1995

C:Accession: PS0128

R;Brorson, K.A.; Hunt III, S.W.; Hunkapiller, T.; Sun, Y.H.; Cheroutre, H.; Nickerson, D.

J. Exp. Med. 170, 1837-1858, 1989

A>Title: Comparison of exon 5 sequences from 35 class I genes of the BALB/c mouse.

A;Reference number: PS0114; MUID:90063453; PMID:2584927

A;Accession: PS0128

A;Molecule type: DNA

A;Residues: 1-35 <BRO>

A;Experimental source: strain BALB/c

A;Note: This sequence is encoded by exon 5

C;Comment: This protein is a surface glycoprotein noncovalently associated with beta 2-m

C;Superfamily: class I histocompatibility antigen; immunoglobulin homology

C;Keywords: Glycoprotein; transmembrane protein; transplantation antigen

F;1-5/Domain: connecting peptide #status predicted <COP>

F;10-30/Domain: transmembrane #status predicted <TRS>

F;31-35/Domain: intracellular #status predicted <INT>

Query Match 6.2%; Score 5; DB 2; Length 35;

Best Local Similarity 100.0%; Pred. No. 4.3e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 73 VVPGA 77

Db 16 VVPGA 20

RESULT 14

B81140

50S ribosomal protein L36 NMB0941 [imported] - Neisseria meningitidis (strain MC58 serog

C:Species: Neisseria meningitidis

C>Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 02-Feb-2001

C:Accession: B81140; D81880

R;Tettelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Eisen, J.A.

Hickey, E.K.; Haft, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty, B.A.;

ri, H.; Qin, H.; Vamathevan, J.; Gill, J.; Scarlato, V.; Massignani, V.; Pizza, M.

Science 287, 1809-1815, 2000

A;Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; Rappuoli, R.; Ve

A;Title: Complete genome sequence of Neisseria meningitidis serogroup B strain MC58.

A;Reference number: A81000; MUID:20175755; PMID:10710307

A;Accession: B81140

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-41 <TET>

A;Cross-references: GB:AE002445; GB:AE002098; NID:97226173; PIDN:AAF41347.1; PID:9722617

A;Experimental source: serogroup B, strain MC58

R;Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.; Morel

; Holroyd, S.; Jagels, K.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; Rajandream,

Nature 404, 502-506, 2000

A;Title: Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491.

A;Reference number: A81775; MUID:20225556; PMID:10761919

A;Accession: D81880

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-41 <PAR>

A;Cross-references: GB:AL162755; GB:AL157959; NID:97379742; PIDN:CAB84399.1; PID:9737983

A;Experimental source: serogroup A, strain Z2491

C;Genetics:

A;Gene: rpmJ2; NMB0941; NMA1137

C;Superfamily: Escherichia coli ribosomal protein L36

Query Match

Best Local Similarity 100.0%; Score 5; DB 2; Length 41;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 VLSSL 9

Db 3 VLSSL 7

RESULT 15

D82269

probable ribosomal protein L36 VC0879 [imported] - Vibrio cholerae (strain N16961 serog

C:Species: Vibrio cholerae

C>Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 02-Feb-2001

C;Accession: D82269

R;Heidelberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, R.J.

; Chardson, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragoi, I.; Sellers,

1, R.R.; Mekalanos, J.J.; Venter, J.C.; Fraser, C.M.

Nature 406, 477-483, 2000

A;Title: DNA Sequence of both chromosomes of the cholera pathogen Vibrio cholerae.

A;Reference number: A82035; MUID:20406833; PMID:10952301

A;Accession: D82269

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-41 <HEI>

A;Cross-references: GB:AE004172; GB:AE003852; NID:9655323; PIDN:AAF94041.1; GSPDB:GN00

A;Experimental source: serogroup O1; strain N16961; biotype El for

C;Genetics:

A;Gene: VC0879

A;Map position: 1

C;Superfamily: Escherichia coli ribosomal protein L36

Query Match

Best Local Similarity 100.0%; Score 5; DB 2; Length 41;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 VLSSL 9

Db 3 VLSSL 7

Search completed: May 16, 2003, 15:35:27

Job time : 18 secs

GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 16, 2003, 15:30:39 ; Search time 12 Seconds
(without alignments)
279.965 Million cell updates/sec

Title: US-09-724-000A-5

Perfect score: 81

Sequence: 1 MRLVLSSLLCILLCSIF.....PCKLEPEPLWVVGALPQV 81

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 112892 seqs, 41476328 residues

Word size : 0

Total number of hits satisfying chosen parameters: 7400

Minimum DB seq length: 23

Maximum DB seq length: 80

Post-processing: Listing first 45 summaries

Database : SwissProt_40.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6	7.4	23	PRP1_RAT	P10165 rattus norv
2	5	6.2	44	THHR_HORVU	P33044 hordeum vul
3	5	6.2	48	ECNB_CITFR	P56550 citrobacter
4	5	6.2	59	NUSM_ARTSA	P19047 artemia sal
5	5	6.2	61	Y083_ARCFU	O30153 archaeoglob
6	5	6.2	66	CXA2_CONTE	Q9XZK7 conus texti
7	5	6.2	67	VC18_SPVKA	P32217 swinepox vi
8	5	6.2	68	L2MU_ADECC	Q65953 canine aden
9	5	6.2	70	RS21_ECOLI	P02379 escherichia
10	5	6.2	74	YC47_ODOSI	P49542 odontella s
11	5	6.2	74	YC55_HAEIN	P44141 haemophilus
12	5	6.2	80	GRFA_SFVKA	P08441 shope fibro
13	5	6.2	80	ICTA_SYNY3	P27372 synchocyst
14	4	4.9	23	ACHG_ELEEL	P09692 electrophor
15	4	4.9	23	UHA4_HUMAN	P49289 homo sapien
16	4	4.9	24	REL1_ECOLI	P56980 escherichia
17	4	4.9	25	CR14_LITGI	P56229 litorea gil
18	4	4.9	25	SPIG_PSEUS	P82357 pseudacanth
19	4	4.9	26	RSXK_THETH	P32193 thermus the
20	4	4.9	27	CXM3_CONPU	P58925 conus purpu
21	4	4.9	28	Y16P_BPT4	P39248 bacterioph
22	4	4.9	29	P2SM_LOXIN	P83046 loxosceles
23	4	4.9	29	PSAK_SPIOL	P14627 spinacia ol
24	4	4.9	30	PRT1_CLUPA	P02335 clupea pall
25	4	4.9	30	UDDP_SULAC	P80143 sulfolobus
26	4	4.9	31	DEF2_MESAU	P81466 mesocricetu
27	4	4.9	31	ER29_BOVIN	P81623 bos taurus
28	4	4.9	31	PETM_CYACA	Q9L155 cyanidium c
29	4	4.9	31	PSBT_CHLRE	P37256 chlamydomon
30	4	4.9	32	NEUB_PIG	P01297 sus scrofa
31	4	4.9	32	PRT_ORYLA	Q91185 oryzias lat
32	4	4.9	32	TX29_PHONI	P29426 phoneutria
33	4	4.9	33	DEF1_MESAU	P81465 mesocricetu

34 4 4.9 33 1 DEF4_MESAU
35 4 4.9 33 1 PEN3_ADECU
36 4 4.9 33 1 Y50A_MYCTU
37 4 4.9 34 1 PRT_DICLA
38 4 4.9 34 1 PRT_PEFV
39 4 4.9 35 1 PSC_PIG
40 4 4.9 35 1 SCX1_BUTSI
41 4 4.9 35 1 Y37_BPT3
42 4 4.9 35 1 Y845_BORBU
43 4 4.9 36 1 YMPC_RAT
44 4 4.9 36 1 PGKH_CHLFU
45 4 4.9 36 1 PSBY_ODOSI

ALIGNMENTS

RESULT 1
PRP1_RAT STANDARD; PRT; 23 AA.
ID PRP1_RAT
AC P10165;
DT 01-MAR-1989 (Rel. 10, Created)
DT 01-MAR-1989 (Rel. 10, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Acidic proline-rich protein PRP18 precursor (Fragment).
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OC NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Parotid gland;
RX MEDLINE=86033799; PubMed=3840480;
RA Clements S., Mehansho H., Carlson D.M.;
RT "Novel multigene families encoding highly repetitive peptide
RT sequences. Sequence analyses of rat and mouse proline-rich protein
RT CDNAS.";
RL J. Biol. Chem. 260:13471-13477 (1985).
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CC -----
CC EMBL; M1899; AAA1956.1; --
KW Repeat; Parotid gland; Multigene family; Saliva; Signal.
FT SIGNAL 1 18 POTENTIAL.
FT CHAIN 19 >23 ACIDIC PROLINE-RICH PROTEIN PRP18.
FT NON_TER 23 23
SQ SEQUENCE 23 AA; 2380 MW; 875B4F61FD056949 CRC64;
Query Match 7.4%; Score 6; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 9.9;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 LVLSS 8
Db 10 LVLSS 15

RESULT 2
THHR_HORVU STANDARD; PRT; 44 AA.
ID THHR_HORVU
AC P33044;
DT 01-OCT-1993 (Rel. 27, Created)
DT 01-OCT-1993 (Rel. 27, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Antifungal protein R (Fragment).
OS Hordeum vulgare (Barley).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Poideae;
 OC Triticeae; Hordeum.
 OX NCBI_TaxID=4513;
 RN [1]
 RN SEQUENCE.
 RC STRAIN=CV. BOMI RISO 1508;
 RX MEDLINE=92037994; PubMed=1936240;
 RA Hejgaard J., Jacobsen S., Svendsen I.;
 RT "Two antifungal thaumatin-like proteins from barley grain."
 RL FEBS Lett. 291:127-131(1991).
 CC -1- FUNCTION: HAS ANTIFUNGAL ACTIVITY. INHIBITS THE GROWTH OF
 CC TRICHODERMA VIRIDAE AND CANDIDA ALBICANS.
 CC -1- SIMILARITY: BELONGS TO THE THAUMATIN FAMILY.
 CC PIR: S17573; S17573.
 DR HSP: P25871; 1AUN.
 DR InterPro: IPR001938; Thaumatin.
 DR Pfam: PF00314; Thaumatin.
 DR ProDom: PD001321; Thaumatin; 1.
 DR PROSITE: PS00316; THAUMATIN; PARTIAL.
 KW Plant defense; Fungicide.
 FT NON TER 44 44
 SQ SEQUENCE 44 AA; 4453 MW; 920713BCE551C1E4 CRC64;

Query Match 6.2%; Score 5; DB 1; Length 44;
 Best Local Similarity 100.0%; Pred. No. 1.8e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 PGALP 79
 Db 15 PGALP 19

RESULT 3

ECNB_CITR STANDARD; PRT; 48 AA.
 AC P56550;
 DT 15-JUL-1998 (Rel. 36, Created).
 DT 15-JUL-1998 (Rel. 36, Last sequence update).
 DT 15-DEC-1998 (Rel. 37, Last annotation update).
 DE Entericidin B precursor.
 OS ECNB.
 GN Citrobacter freundii.
 OC Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
 OC Citrobacter.
 OX NCBI_TaxID=546;
 RN [1]
 RN SEQUENCE FROM N.A.
 RC STRAIN=OS60;
 RX MEDLINE=98344100; PubMed=9677290;
 RA Bishop R.E., Leskiw B.K., Hodges R.S., Kay C.M., Weiner J.H.;
 RT "The entericidin locus of Escherichia coli and its implications for
 programmed bacterial cell death."
 RL J. Mol. Biol. 280:593-596(1998).
 CC -1- FUNCTION: PLAYS A ROLE IN THE BACTERIOLYSIS. IS ACTIVATED UNDER
 CC CONDITIONS OF HIGH OSMOLARITY BY THE FACTOR SIGMA S. ENTERICIDIN A
 CC FUNCTIONS AS A ANTIDOTE.
 CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a lipid anchor.
 CC -1- SIMILARITY: STRONG, TO ECNA.

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EMBL: U21727; AAC46459.1; --
 KW Membrane; Lipoprotein; Signal.
 FT SIGNAL 1 21 POTENTIAL.
 FT CHAIN 22 48 ENTERICIDIN B.
 FT LIPID 22 22 N-ACYL DIGLYCERIDE (PROBABLE).
 SQ SEQUENCE 48 AA; 4767 MW; D951A3C8236FD18E CRC64;

Query Match 6.2%; Score 5; DB 1; Length 48;
 Best Local Similarity 100.0%; Pred. No. 2e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 LVLSS 8
 Db 13 LVLSS 17

RESULT 4

NUSM_ARTSA STANDARD; PRT; 59 AA.
 ID NUSM_ARTSA
 AC P19047;
 DT 01-NOV-1990 (Rel. 16, Created).
 DT 01-NOV-1990 (Rel. 16, Last sequence update).
 DT 01-FEB-1994 (Rel. 28, Last annotation update).
 DE NADH-ubiquinone oxidoreductase chain 5 (EC 1.6.5.3) (Fragment).
 GN ND5.
 OS Artemia salina (Brine shrimp).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Crustacea;
 OC Branchiopoda; Anostraca; Artemiidae; Artemia.
 OX NCBI_TaxID=85549;
 RN [1]
 RN SEQUENCE FROM N.A.
 RP MEDLINE=88289417; PubMed=3135541;
 RA Batuecas B., Garesse R., Calleja M., Valverde J.R., Marco R.;
 RT "Genome organization of Artemia mitochondrial DNA."
 RL Nucleic Acids Res. 16:6515-6529(1988).
 CC -1- CATALYTIC ACTIVITY: NADH + ubiquinone = NAD(+) + ubiquinol.
 CC

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 CC

EMBL: X07663; CAA30510.1; --
 DR PIR: S01877; S01877.
 KW Oxidoreductase; NAD; Ubiquinone; Mitochondrion.
 FT NON TER 1 1
 FT NON TER 1 1
 SQ SEQUENCE 59 AA; 6585 MW; 60C9E6E04827DC23 CRC64;

Query Match 6.2%; Score 5; DB 1; Length 59;
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LSSLL 10
 Db 46 LSSLL 50

RESULT 5

Y083_ARCFU STANDARD; PRT; 61 AA.
 ID Y083_ARCFU
 AC O30153;
 DT 16-OCT-2001 (Rel. 40, Created).
 DT 16-OCT-2001 (Rel. 40, Last sequence update).
 DT 16-OCT-2001 (Rel. 40, Last annotation update).
 DE Hypothetical protein AF0083.
 GN AF0083.
 OS Archaeoglobus fulgidus.
 OC Archaeaea; Euryarchaeota; Archaeoglobi; Archaeoglobales;
 OC Archaeoglobaceae; Archaeoglobus.
 OX NCBI_TaxID=2234;
 RN [1]
 RN SEQUENCE FROM N.A.

RC STRAIN=VC-16 / DSM 4304 / ATCC 49558;
 RX MEDLINE=98049343; PubMed=9389475;
 RA Klenk H.-P., Clayton R.A., Tomb J.-F., White O., Nelson K.E.,

RA Ketchum K.A., Dodson R.J., Gwinn M., Hickey E.K., Peterson J.D.,
 RA Richardson D.L., Kerlavage A.R., Graham D.E., Kyriades N.C.,
 RA Fleischmann R.D., Quackenbush J., Lee N.H., Sutton G.G., Gill S.,
 RA Kirkness E.F., Dougherty B.A., McKenney K., Adams M.D., Loftus B.,
 RA Peterson S., Reich C.I., McNeil L.K., Badger J.H., Glodek A., Zhou L.,
 RA Overbeek R., Gocayne J.D., Weidman J.F., McDonald L., Uterback T.,
 RA Corton M.D., Spriggs T., Artach P., Kaine B.P., Sykes S.M.,
 RA Sadow P.W., D'Andrea K.P., Bowman C., Fujii C., Garland S.A.,
 RA Mason T.M., Olsen G.J., Fraser C.M., Smith H.O., Woese C.R.,
 RA Venter J.C.;
 RT "The complete genome sequence of the hyperthermophilic, sulphate-
 RT reducing archaeon *Archaeoglobus fulgidus*.";
 PL Nature 390:364-370(1997).
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 CC -----
 CC EMBL: AE001100; AAB91149.1; -
 DR TIGR: AF0083; -
 KW Hypothetical protein; Complete proteome.
 SQ SEQUENCE 61 AA; 7053 MW; 4096E1B2A28E7D36 CRC64;
 Query Match 6.2%; Score 5; DB 1; Length 61;
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 27 RPAKA 31
 Db 43 RPAKA 47
 RESULT 6
 ID CXA2 CONTE STANDARD; PRT; 66 AA.
 AC Q9XZK7;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Alpha-type conotoxin Tx2 precursor.
 OS Conus textile (Cloth-of-gold cone).
 OS Eukaryota; Metazoa; Mollusca; Gastropoda; Caenogastropoda;
 OC Neogastropoda; Conoidea; Conidae; Conus.
 OX NCBI_TaxID=6494;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Venom duct;
 RX MEDLINE=20037955; PubMed=10573284;
 RA Lu B.-S., Yu F., Zhao D., Huang P.-T., Huang C.-P.;
 RT "Conopeptides from *Conus striatus* and *Conus textile* by cDNA
 RT cloning.";
 RL Peptides 20:1139-1144(1999).
 CC -!- FUNCTION: Alpha-conotoxins act on postsynaptic membranes, they
 CC bind to the nicotinic acetylcholine receptors (nAChR) and thus
 CC inhibit them (By similarity).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.
 CC -!- SIMILARITY: BELONGS TO THE A-SUPERFAMILY OF CONOTOXINS. ALPHA-TYPE
 CC FAMILY.
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 CC -----
 CC EMBL: AF146353; AAD31913.1; -

KW Postsynaptic neurotoxin; Neurotoxin; Toxin;
 KW Acetylcholine receptor inhibitor; Signal.
 FT SIGNAL 1 21 POTENTIAL.
 FT POPEP 22 48 POTENTIAL.
 FT PRPTDE 49 66 ALPHA-TYPE CONOTOXIN TX2.
 FT DISULFID 51 57 BY SIMILARITY.
 FT DISULFID 52 65 BY SIMILARITY.
 SQ SEQUENCE 66 AA; 7254 MW; EDD59BBAB94F26F CRC64;
 Query Match 6.2%; Score 5; DB 1; Length 66;
 Best Local Similarity 100.0%; Pred. No. 2.6e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 33 SGRRT 37
 Db 24 SGRRT 28
 RESULT 7
 ID VC18 SPVKA STANDARD; PRT; 67 AA.
 AC P32217;
 DT 01-OCT-1993 (Rel. 27, Created)
 DT 01-OCT-1993 (Rel. 27, Last sequence update)
 DT 01-NOV-1995 (Rel. 32, Last annotation update)
 DE Hypothetical protein C18.
 GN C18.
 OS Swinepox virus (strain Kasza) (SPV).
 OC Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
 OC Suipoxvirus.
 OX NCBI_TaxID=10277;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=94069924; PubMed=8249275;
 RA Massung R.F., Jayarama V., Moyer R.W.;
 RT "DNA sequence analysis of conserved and unique regions of swinepox
 RT virus: identification of genetic elements supporting phenotypic
 RT observations including a novel G protein-coupled receptor
 RT homologue.";
 RL Virology 197:511-528(1993).
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 CC -----
 CC EMBL: L22013; AAC37853.1; -
 KW Hypothetical protein.
 SQ SEQUENCE 67 AA; 8258 MW; 4D34A27408B74975 CRC64;
 Query Match 6.2%; Score 5; DB 1; Length 67;
 Best Local Similarity 100.0%; Pred. No. 2.6e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 10 LCILL 14
 Db 16 LCILL 20
 RESULT 8
 ID L2MU ADECC STANDARD; PRT; 68 AA.
 AC Q65953;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Late L2 mu core protein precursor (pMu) (Protein X).
 GN PX.
 OS Canine adenovirus type 1 (strain CLL), and
 OS Canine adenovirus type 1 (strain R1261).

OC Viruses; dsDNA viruses, no RNA stage; Adenoviridae; Mastadenovirus.
 OX NCBI_TaxID=69150, 69151;
 [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=K12;
 RA Campbell J.B., Zhao Y.;
 RL Submitted (AUG-1996) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=K1261;
 RX MEDLINE=97275900; PubMed=9129661;
 RA Morrison M.D., Onions D.E., Nicolson L.;
 RT "Complete DNA sequence of canine adenovirus type 1.";
 RL J. Gen. Virol. 78:873-878 (1997).
 CC -!- FUNCTION: THE ROLE OF THE PRECURSOR MIGHT BE TO CONDENSE THE
 CC VIRAL PROCHROMATIN FOR ENCAPSIDATION BY VIRTUE OF THE TWO
 CC BASIC DOMAINS (BY SIMILARITY).
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 CC -----
 CC EMBL; U55001; AB05441.1; -;
 DR EMBL; Y07760; CA69064.1; -;
 DR Core protein; DNA-binding; Late protein.
 KW PROPEP 1 21 POTENTIAL.
 FT CHAIN 22 39 LATE L2 MU CORE PROTEIN.
 FT PROPEP 40 68 POTENTIAL.
 FT SITE 21 22 CLEAVAGE (BY ADENOVIRUS PROTEASE)
 FT SITE 39 40 CLEAVAGE (BY ADENOVIRUS PROTEASE)
 FT SITE 68 AA; 7226 MW; 794038F721AB152D CRC64;
 SQ SEQUENCE 68 AA; 7226 MW; 794038F721AB152D CRC64;
 Query Match 6.2%; Score 5; DB 1; Length 68;
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 34 GRRTR 38
 Db 26 GRRTR 30
 |||||
 RESULT 9
 RS21 ECOLI STANDARD; PRT; 70 AA.
 AC P02379; Q8Z169;
 DT 21-JUL-1996 (Rel. 01, Created)
 DT 21-JUL-1996 (Rel. 01, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE 30S ribosomal protein S21.
 GN RPSU OR B3065 OR Z4418 OR ECS948 OR STM3209 OR STY3388 OR YPO0645.
 OS Escherichia coli, O157:H7,
 OS Escherichia coli O157:H7,
 OS Salmonella typhimurium,
 OS Salmonella typhi, and
 OS Yersinia pestis.
 OC Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
 OC Escherichia.
 OX NCBI_TaxID=562, 83334, 602, 601, 632;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC SPECIES=E.coli;
 RX MEDLINE=83129424; PubMed=6186393;
 RA Burton Z.F., Gross C.A., Watanabe K.K., Burgess R.R.;
 RT "The operon that encodes the sigma subunit of RNA polymerase also
 RT encodes ribosomal protein S21 and DNA primase in E. coli K12.";
 RL Cell 32:335-349 (1983).
 RN [2]

RP SEQUENCE FROM N.A.
 RC SPECIES=E.coli; STRAIN=K12;
 RX MEDLINE=83218520; PubMed=6222240;
 RA Lupski J.R., Smiley B.L., Godson G.N.;
 RT "Regulation of the rpsU-dnaG-rpoD macromolecular synthesis operon and
 RT the initiation of DNA replication in Escherichia coli K-12.";
 RL Mol. Gen. Genet. 189:48-57 (1983).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC SPECIES=E.coli; STRAIN=K12 / MG1655;
 RX MEDLINE=97426617; PubMed=9278503;
 RA Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,
 RA Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,
 RA Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
 RA Mau B., Shao Y.;
 RT "The complete genome sequence of Escherichia coli K-12.";
 RL Science 277:1453-1474 (1997).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC SPECIES=E.coli; STRAIN=O157:H7 / EDL933 / ATCC 700927;
 RX MEDLINE=21074935; PubMed=11206551;
 RA Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D.,
 RA Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A.,
 RA Posfai G., Hackett J., Klink S., Boutin A., Shao Y., Miller L.,
 RA Grotbeck E.J., Davis N.W., Lim A., Dimalanta E.T., Potamousis K.,
 RA Apodaca J., Anantharaman T.S., Lin J., Yen G., Schwartz D.C.,
 RA Welch R.A., Blattner F.R.;
 RT "Genome sequence of enterohaemorrhagic Escherichia coli O157:H7.";
 RL Nature 409:529-533 (2001).
 RN [5]
 RP SEQUENCE FROM N.A.
 RC SPECIES=E.coli; STRAIN=O157:H7 / RIMD 0509952;
 RX MEDLINE=21156231; PubMed=11258796;
 RA Hayashi T., Makino K., Ohnishi M., Kurokawa K., Ishii K., Yokoyama K.,
 RA Han C.-G., Ohtsubo E., Nakayama K., Murata T., Tanaka M., Tobe T.,
 RA Iida T., Takami H., Honda T., Sasakawa C., Ogasawara N., Yasunaga T.,
 RA Kuhara S., Shiba T., Hattori M., Shinagawa H.;
 RT "Complete genome sequence of enterohemorrhagic Escherichia coli
 RT O157:H7 and genomic comparison with a laboratory strain K-12.";
 RL DNA Res. 8:11-22 (2001).
 RN [6]
 RP SEQUENCE.
 RC SPECIES=E.coli; STRAIN=K;
 RX MEDLINE=76119561; PubMed=765257;
 RA Vandekerckhove J., Rombaerts W., Peeters B., Wittmann-Liebold B.;
 RT "Determination of the complete amino acid sequence of protein S21
 RT from Escherichia coli ribosomes.";
 RL Hoppe-Seyler's Z. Physiol. Chem. 356:1955-1976 (1975).
 RN [7]
 RP SEQUENCE OF 25-34. AND CROSS-LINKING TO RNA.
 RC SPECIES=E.coli; STRAIN=MRE-600;
 RX PubMed=7556101;
 RA Uriaub H., Kruff V., Bischof O., Mueller E.-C., Wittmann-Liebold B.;
 RT "Protein-rRNA binding features and their structural and functional
 RT implications in ribosomes as determined by cross-linking studies.";
 RN EMBO J. 14:4578-4588 (1995).
 RN [8]
 RP SEQUENCE FROM N.A.
 RC SPECIES=S.typhimurium;
 RX MEDLINE=86137422; PubMed=3005129;
 RA Erickson B.D., Burton Z.F., Watanabe K.K., Burgess R.R.;
 RT "Nucleotide sequence of the rpsU-dnaG-rpoD operon from Salmonella
 RT typhimurium and a comparison of this sequence with the homologous
 RT operon of Escherichia coli.";
 RL Gene 40:67-78 (1985).
 RN [9]
 RP SEQUENCE FROM N.A.
 RC SPECIES=S.typhimurium; STRAIN=LT2 / SGSC1412 / ATCC 700720;
 RX MEDLINE=21534948; PubMed=11677609;
 RA McClelland M., Sanderson K.E., Spieth J., Clifton S.W., Latreille P.,
 RA Courtney L., Porwollik S., Ali J., Dante M., Du P., Hou S., Layman D.,
 RA Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mulvaney E.,
 RA Ryan E., Sun H., Florea L., Miller W., Stoneking T., Nhan M.,

RA Waterston R., Wilson R.K.;
RT "Complete genome sequence of Salmonella enterica serovar Typhimurium
RL L72.";
RN Nature 413:852-856(2001).
[10]
RP SEQUENCE FROM N.A.
RC SPECIES=S.typhi; STRAIN=CT18;
RX MEDLINE=21534947; PubMed=11677608;
RA Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain J.,
RA Churcher C., Mungall K.L., Bentley S.D., Holden M.T.G., Sebahia M.,
RA Baker S., Basham D., Brooks K., Chillingworth T., Connor P.,
RA Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J.,
RA Feltwell T., Hamlin N., Heqae A., Hien T.T., Holroyd S., Jégels K.,
RA Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C.,
RA Quail M., Rutherford K., Simmonds M., Skelton J., Stevens K.,
RA Whitehead S., Barrall B.G.;
RT "Complete genome sequence of a multiple drug resistant Salmonella
enterica serovar Typhi CT18.";
RL Nature 413:848-852(2001).
[11]
RN SEQUENCE FROM N.A.
RP SPECIES=Y.pestis; STRAIN=CO-92 / Biovar Orientalis;
RX MEDLINE=21470413; PubMed=11586360;
RA Parkhill J., Wren B.W., Thomson N.R., Titball R.W., Holden M.T.G.,
RA Prentice M.B., Sebahia M., James K.D., Churcher C., Mungall K.L.,
RA Baker S., Basham D., Bentley S.D., Brooks K., Cerdano-Tarraga A.M.,
RA Chillingworth T., Cronin A., Davies R.M., Davis P., Dougan G.,
RA Feltwell T., Hamlin N., Holroyd S., Jégels K., Karlyshev A.V.,
RA Leather S., Moule S., Oyston P.C.F., Quail M., Rutherford K.,
RA Simmonds M., Skelton J., Stevens K., Whitehead S., Barrall B.G.;
RA "Genome sequence of Yersinia pestis, the causative agent of plague.";
RL Nature 413:523-527(2001).
[12]
RN MASS SPECTROMETRY.
RP SPECIES=E.coli; STRAIN=K12;
RX MEDLINE=99196679; PubMed=10094780;
RA Arnold R.J., Reilly J.P.;
RT "Observation of Escherichia coli ribosomal proteins and their
posttranslational modifications by mass spectrometry.";
RL Anal. Biochem. 269:105-112(1999)
CC -1- MASS SPECTROMETRY: MW=8368.8; METHOD=MALDI.
CC -1- SIMILARITY: BELONGS TO THE SLIP FAMILY OF RIBOSOMAL PROTEINS.
CC -----
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CC -----
DR EMBL; J01687; AAA24599.1; -;
DR EMBL; J03346; CAA23635.1; -;
DR EMBL; U28379; AAA89145.1; -;
DR EMBL; AE000388; AAC76101.1; -;
DR EMBL; AE005335; AAG58199.1; -;
DR EMBL; AP002564; BAB37371.1; -;
DR EMBL; M14427; AAA27240.1; -;
DR EMBL; AE008847; AAL22083.1; -;
DR EMBL; AL627278; CAD07734.1; -;
DR EMBL; AJ414144; CAC89499.1; -;
DR PIR; A02749; R3EB21.
DR PIR; A23985; R3EB21.
DR EcoGene; EG10920; rpsU.
DR StyGene; SG10376; rpsU.
DR InterPro; IPR001911; Ribosomal_S21.
DR Pfam; PF01165; Ribosomal_S21; 1.
DR PRINTS; PR00976; RIBOSOMALS21.
DR ProDom; PD005521; Ribosomal_S21; 1.
DR TIGRFAMs; TIGR00030; S21p; 1.
DR PROSITE; PS01181; RIBOSOMAL_S21; 1.
KW Ribosomal protein; Complete proteome.
FT INIT_MET 0

SQ SEQUENCE 70 AA; 8369 MW; 2BB7C7B2FBB29013 CRC64;
Query Match 6.2%; Score 5; DB 1; Length 70;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 35 RRTRL 39
DB 65 RRTRL 69
|||||
RESULT 10
YC47_ODOSI STANDARD; PRT; 74 AA.
ID YC47_ODOSI
AC P49542;
DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 15-DEC-1998 (Rel. 37, Last annotation update)
DE Hypothetical 8.4 kDa protein ycf47 (ORF74).
GN YCF47.
OS Odontella sinensis (Marine centric diatom).
OG Chloroplast.
OC Eukaryota; stramenopiles; Bacillariophyta; Coscinodiscophyceae;
OC Biddulphiophycidae; Eupodiscales; Eupodiscaeae; Odontella.
OX NCBI_TaxID=2839;
RN [1]
RP SEQUENCE FROM N.A.
RA Kowalik K.V., Stoebe B., Schaffran I., Kroth-Pancic P., Freier U.;
RT "The chloroplast genome of a chlorophyll a+c-containing alga,
RT Odontella sinensis.";
RL Plant Mol. Biol. Rep. 13:336-342(1995).
CC -1- SIMILARITY: BELONGS TO THE YCF47 FAMILY.
CC -----
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CC -----
DR EMBL; Z67753; CAA91678.1; -;
DR Chloroplast; Hypothetical protein.
SQ SEQUENCE 74 AA; 8436 MW; A80A858F7A939C72 CRC64;
Query Match 6.2%; Score 5; DB 1; Length 74;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 46 SPNST 50
DB 41 SPNST 45
|||||
RESULT 11
YC55_HAEIN STANDARD; PRT; 74 AA.
ID YC55_HAEIN
AC P44121;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Hypothetical protein H11255.
GN H11255.
OS Haemophilus influenzae.
OC Bacteria; Proteobacteria; gamma subdivision; Pasteurellaceae;
OC Haemophilus.
OX NCBI_TaxID=727;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=Rd / KW20 / ATCC 51907;
RX MEDLINE=95350630; PubMed=7542800;
RA Fleischmann R.D., Adams M.D., White O., Clayton R.A., Kirkness E.F.,
RA Kerlavage A.R., Bult C.J., Tomb J.-F., Dougherty B.A., Merrick J.M.,

```
RA McKenney K., Sutton G., Fitzhugh W., Fields C.A., Gocayne J.D.,
RA Scott J.D., Shirley R., Liu L.-I., Glodek A., Kelley J.M.,
RA Weidman J.F., Phillips C.A., Spriggs T., Hedblom E., Cotton M.D.,
RA Utterback T.R., Hanna M.C., Nguyen D.T., Saudek D.M., Brandon R.C.,
RA Fine L.D., Fritchman J.L., Fuhrmann J.L., Geoghagen N.S.M.,
RA Gnehm C.L., McDonald L.A., Small K.V., Fraser C.M., Smith H.O.,
RA Venter J.C.;
RT "Whole-genome random sequencing and assembly of Haemophilus influenzae
RT Rd.";
RL Science 269:496-512(1995).
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CC -----
DR EMBL; U32805; AAC22910.1; -.
DR TIGR; H11255; -.
KW Hypothetical protein; Complete proteome.
SQ
      QUERY Match          6.2%; Score 5; DB 1; Length 74;
      Best Local Similarity 100.0%; Pred. No. 2.9e+02;
      Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
      QY 24 GKRRP 28
      DB 13 GKRRP 17
      |||||
      |||||

RESULT 12
GRFA SFVKA
ID GRFA SFVKA STANDARD; PRT; 80 AA.
AC P0841;
DT 01-AUG-1988 (Rel. 08, Created)
DT 01-AUG-1988 (Rel. 08, Last sequence update)
DT 01-FEB-1996 (Rel. 33, Last annotation update)
DE Growth factor.
OS Shope fibroma virus (strain Kasza) (SFV).
OC Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
OC Leporipoxvirus.
OC NCBI_TaxID=10272;
OX [1]
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=87172751; PubMed=3031480;
RA Chang W., Upton C., Hu S.-L., Purchio A.F., McFadden G.;
RT "The genome of Shope fibroma virus, a tumorigenic poxvirus, contains
RT a growth factor gene with sequence similarity to those encoding
RT epidermal growth factor and transforming growth factor alpha.";
RL Mol. Cell. Biol. 7:535-540(1987).
CC -!- SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
CC -----
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CC -----
DR EMBL; M15921; AAA66973.1; -.
DR PIR; A26723; EGVZSF.
DR InterPro; IPR000561; EGF-like.
DR InterPro; IPR001336; EGF_1.
DR Pfam; PF00008; EGF_1.
DR PRINTS; PR00009; EGFTGF.
DR SMART; SMO0181; EGF_1.
DR PROSITE; PS00022; EGF_1; 1.
DR PROSITE; PS01186; EGF_2; FALSE_NEG.
KW EGF-like domain; Growth factor; Glycoprotein.
```

```
FT DOMAIN 29 73 EGF-LIKE.
FT DISULFID 33 47 BY SIMILARITY.
FT DISULFID 41 61 BY SIMILARITY.
FT DISULFID 63 72 BY SIMILARITY.
FT CARBOHYD 44 44 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 80 AA; 9210 MW; C48D30E878D2ED58 CRC64;

Query Match          6.2%; Score 5; DB 1; Length 80;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
      QY 8 SLLCI 12
      DB 9 SLLCI 13
      |||||
      |||||

RESULT 13
ICTA SYN3
ID ICTA SYN3 STANDARD; PRT; 80 AA.
AC P27372;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Inorganic carbon transport protein.
DE Inorganic carbon transport protein.
GN ICTA OR SSRI386.
OS Synechocystis sp. (strain PCC 6803).
OC Bacteria; Cyanobacteria; Chroococcales; Synechocystis.
OX NCBI_TaxID=1148;
RN [1]
RP SEQUENCE FROM N.A.
RA Ogawa T.;
RT "Cloning and inactivation of a gene essential to inorganic carbon
RT transport of Synechocystis PCC6803.";
RL Plant Physiol. 96:280-284(1991).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=97061201; PubMed=8905231;
RA Kaneko T., Sato S., Kotani H., Tanaka A., Asamizu E., Nakamura Y.,
RA Miyajima N., Hiroseawa M., Sugiyama M., Sasamoto S., Kimura T.,
RA Hosouchi T., Matsuno A., Muraki A., Nakazaki N., Naruo K.,
RA Okumura S., Shimpo S., Takeuchi C., Wada T., Watanabe A.,
RA Yamada M., Yasuda M., Tabata S.;
RT "Sequence analysis of the genome of the unicellular cyanobacterium
RT Synechocystis sp. strain PCC6803. II. Sequence determination of the
RT entire genome and assignment of potential protein-coding regions.";
RL DNA Res. 3:109-136(1996).
CC -----
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CC -----
DR EMBL; M73833; AAA27290.1; -.
DR EMBL; D90911; BAA18123.1; -.
DR PIR; JQ1959; JQ1959.
KW Transport; Complete proteome.
SQ SEQUENCE 80 AA; 9252 MW; 311AD10FA3B6136D CRC64;

Query Match          6.2%; Score 5; DB 1; Length 80;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
      QY 3 LLVLS 7
      DB 64 LLVLS 68
      |||||
      |||||

RESULT 14
ACHG_ELEEL
```

```

Matches      4;  Conservative      0;  Mismatches      0;  Indels      0;  Gaps      0;

Qy      50  TNLX      53
      ||||
Db      20  TNLX      23

. Search completed: May 16, 2003, 15:34:26
Job time : 14 secs

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GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: May 16, 2003, 15:31:20 ; Search time 30 Seconds
(without alignments)
556.327 Million cell updates/sec

Title: US-09-724-000A-5
Perfect score: 81
Sequence: 1 MRLVLSSLLCILLCSIF.....PCKLEPRLWVVGALPQV 81

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 671580 seqs, 206047115 residues

Word size : 0

Total number of hits satisfying chosen parameters: 70278

Minimum DB seq length: 23

Maximum DB seq length: 80

Post-processing: Listing first 45 summaries

Database :

SPTREMBL 21:.*
1: sp_archaea:.*
2: sp_bacteria:.*
3: sp_fungi:.*
4: sp_human:.*
5: sp_invertebrate:.*
6: sp_mammal:.*
7: sp_mic:.*
8: sp_organelle:.*
9: sp_phase:.*
10: sp_plant:.*
11: sp_rodent:.*
12: sp_virus:.*
13: sp_vertebrate:.*
14: sp_unclassified:.*
15: sp_rvirus:.*
16: sp_bacteriap:.*
17: sp_archaeap:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	7	8.6	51	5	O61655 ceratitis c
2	7	8.6	73	16	O8XRN8 ralstonia s
3	6	7.4	30	4	Q86D89
4	6	7.4	52	10	Q9SK17
5	6	7.4	73	4	Q9BT96
6	6	7.4	76	10	Q9XER1
7	6	7.4	77	3	Q9P5V0
8	6	7.4	78	16	Q9ALT5
9	6	7.4	79	12	Q9ILC1
10	6	7.4	79	16	Q9PD22
11	5	6.2	23	10	Q9S906
12	5	6.2	24	8	Q94XE2
13	5	6.2	25	11	Q9QUX1
14	5	6.2	25	13	Q9PWR9
15	5	6.2	26	10	Q9S907
16	5	6.2	27	12	Q9Q9F2

17	5	6.2	27	12	Q9Q9E6	Q9q9e6 hepatitis c
18	5	6.2	27	12	Q9Q9E2	Q9q9e2 hepatitis c
19	5	6.2	27	12	Q9Q9D6	Q9q9d6 hepatitis c
20	5	6.2	28	4	O43804	O43804 homo sapien
21	5	6.2	28	8	O98676	O98676 ondinea pur
22	5	6.2	29	10	O9S8C7	O9s8c7 secale cere
23	5	6.2	30	7	Q31234	Q31234 mus musculu
24	5	6.2	30	11	Q9WVD6	Q9wvd6 mus musculu
25	5	6.2	31	2	O47323	O47323 escherichia
26	5	6.2	32	7	Q9BCT8	Q9bct8 homo sapien
27	5	6.2	32	7	Q95HL3	Q95hl3 homo sapien
28	5	6.2	32	7	Q8SNB9	Q8snb9 homo sapien
29	5	6.2	32	11	Q9RIC2	Q9ric2 mus musculu
30	5	6.2	33	11	O63329	O63329 rattus norv
31	5	6.2	34	4	Q96J93	Q96j93 homo sapien
32	5	6.2	35	2	Q9R4S7	Q9r4s7 rhodobacter
33	5	6.2	35	4	Q9NOY7	Q9nvy7 homo sapien
34	5	6.2	35	4	Q9UGE7	Q9uge7 homo sapien
35	5	6.2	37	2	Q9EY28	Q9ey28 photobacter
36	5	6.2	37	4	Q9NQN5	Q9eqn5 homo sapien
37	5	6.2	37	5	Q9BM33	Q9bm33 themiste al
38	5	6.2	37	5	Q9BM32	Q9bm32 themiste al
39	5	6.2	39	3	O8TGR6	O8tgr6 saccharomyc
40	5	6.2	39	12	O88527	O88527 turkey herp
41	5	6.2	39	16	Q8XTC6	Q8xtc6 ralstonia s
42	5	6.2	40	12	Q91X09	Q91x09 hepatitis c
43	5	6.2	41	15	Q9PXE3	Q9pxe3 chimpanzee
44	5	6.2	41	16	Q9PAQ5	Q9paq5 xylella fas
45	5	6.2	41	16	Q9KTM3	Q9krm3 vibrio chol

ALIGNMENTS

RESULT 1

O61655 PRELIMINARY; PRT; 51 AA.
AC O61655;
DT 01-AUG-1998 (T-EMBLrel. 07, Created)
DT 01-AUG-1998 (T-EMBLrel. 07, Last sequence update)
DT 01-JUN-2002 (T-EMBLrel. 21, Last annotation update)
DE Cytochrome P450 monooxygenase (Fragment).
OS Ceratitis capitata (Mediterranean fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Tephritidae; Tephritidae; Ceratitis.
OX NCBI_TaxID=7213;
RN [1]
RP SEQUENCE FROM N.A.
RA Danielson P.B., Foster J.L.M., Cooper S.K., Fogleman J.C.;
RT "Diversity of Expressed cytochrome P450 Genes in the Adult
RT Mediterranean Fruit Fly, Ceratitis capitata."
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF056474; AAC13307.1; -
DR InterPro; IPR001128; Cytochrome_P450.
DR Pfam; PF00067; p450; 1.
KW Monooxygenase.
FT NON TER 1 1
SQ SEQUENCE 51 AA; 5854 MW; 0CAlF3B75BDECE44 CRC64;

Query Match 8.6%; Score 7; DB 5; Length 51;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 LVLSSLL 10
Db 10 LVLSSLL 16

RESULT 2

O8XRN8 PRELIMINARY; PRT; 73 AA.
ID O8XRN8
AC O8XRN8;

DT 01-MAR-2002 (TrEMBLrel. 20, Created)
 DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
 DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
 DE Hypothetical protein RSP0793.
 GN RSP0793 OR RS01914.
 OS Ralstonia solanacearum (Pseudomonas solanacearum).
 OG Bacteria; Proteobacteria; beta subdivision; Ralstonia group;
 OC Ralstonia.
 OX NCBI_TaxID=305;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=GMI1000;
 RX MEDLINE=21681879; PubMed=11833852;
 RA Salanoubat M., Genin S., Artiguenave F., Gouzy J., Mangenot S.,
 RA Arlat M., Billault A., Brottier P., Camus J.C., Cattolico L.,
 RA Chandler M., Choise N., Claudel-Renard C., Cunnac S., Demange N.,
 RA Gaspin C., Lavie M., Moisan A., Robert C., Saurin W., Schiex T.,
 RA Siguer P., Thebault P., Whalen M., Wincker P., Levy M.,
 RA Weissenbach J., Boucher C.A.;
 RT "Genome sequence of the plant pathogen Ralstonia solanacearum.";
 RL Nature 415:457-502(2002).
 DR EMBL; AL646080; CAD17944.1; -;
 SK Plasmid; Hypothetical protein; Complete proteome.
 SQ SEQUENCE 73 AA; 8333 MW; 8BEFAAC58DAE173C CRC64;
 Query Match 8.6%; Score 7; DB 16; Length 73;
 Best Local Similarity 100.0%; Pred. No. 7.5;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 23 EGKRRPA 29
 Db 29 EGKRRPA 35
 RESULT 3
 Q96D69
 ID Q96D69 PRELIMINARY; PRT; 30 AA.
 AC Q96D69;
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Hypothetical 3.1 kDa protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=LUNG;
 RA Strausberg R.;
 RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC012777; AAH12777.1; -;
 KW Hypothetical protein.
 SQ SEQUENCE 30 AA; 3108 MW; C5EB62C1A5F8405C CRC64;
 Query Match 7.4%; Score 6; DB 4; Length 30;
 Best Local Similarity 100.0%; Pred. No. 42;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 73 VVPGAL 78
 Db 15 VVPGAL 20
 RESULT 4
 Q9SK17
 ID Q9SK17 PRELIMINARY; PRT; 52 AA.
 AC Q9SK17;
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE At2g06480 protein.

GN AT2G06480.
 OS Arabidopsis thaliana (Mouse-ear cress).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
 OC eurosids II; Brassicales; Brassicaceae; Arabidopsiis.
 OX NCBI_TaxID=3702;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CV. COLUMBIA;
 RX MEDLINE=20083487; PubMed=10617197;
 RA Lin X., Kaul S., Rounsley S.D., Shea T.P., Benito M.-I., Town C.D.,
 RA Fujii C.Y., Mason T.M., Bowman C.L., Barnstead M.E., Feldblum T.V.,
 RA Buell C.R., Ketchum K.A., Lee J.J., Renning C.M., Koo H., Moffat K.S.,
 RA Cronin L.A., Shen M., VanAken S.E., Umayam L., Tallon L.J., Gill J.E.,
 RA Adams M.D., Carretero A.J., Creasy T.H., Goodman H.M., Somerville C.R.,
 RA Copenhaver G.P., Preuss D., Nickman W.C., White O., Eisen J.A.,
 RA Salzberg S.B., Frazer C.M., Venter J.C.;
 RT "Sequence and analysis of chromosome 2 of the plant Arabidopsis
 thaliana.";
 RL Nature 402:761-768(1999).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CV. COLUMBIA;
 RX Lin X.;
 RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AC006420; AAD25147.1; -;
 SQ SEQUENCE 52 AA; 5985 MW; 82F906B7FE4DCEE1 CRC64;
 Query Match 7.4%; Score 6; DB 10; Length 52;
 Best Local Similarity 100.0%; Pred. No. 68;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 74 VPGALP 79
 Db 2. VPGALP 7
 RESULT 5
 Q9BT96
 ID Q9BT96 PRELIMINARY; PRT; 73 AA.
 AC Q9BT96;
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)
 DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Similar to hypothetical protein FLJ10719.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=SKIN;
 RA Strausberg R.;
 RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC004277; AAH04277.1; -;
 KW Hypothetical protein.
 SQ SEQUENCE 73 AA; 8217 MW; 64A7140446E960DD CRC64;
 Query Match 7.4%; Score 6; DB 4; Length 73;
 Best Local Similarity 100.0%; Pred. No. 92;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 LVLVSS 8
 Db 38 LVLVSS 43
 RESULT 6
 Q9XER1
 ID Q9XER1 PRELIMINARY; PRT; 76 AA.
 AC Q9XER1;
 DT 01-NOV-1999 (TrEMBLrel. 12, Created)
 DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)


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DT 01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
DE FS18A.
GN Gossypium hirsutum (Upland cotton).
OS Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosida II; Malvales; Malvaceae; Gossypium.
OX NCBI_TaxID=3635;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=CV. SIOKA 1-4;
RA Orford S.J., Carney T.J., Olesnick N.S., Timmis J.N.;
RT "Characterization of a cotton gene expressed late in fiber cell
RT elongation.";
RL Theor. Appl. Genet. 0:0-0(1999).
DR EMBL; AF114254; AAD31394.1; -.
KW SIGNAL.
FT CHAIN 1 26 POTENTIAL.
FT SIGNAL 27 76 PROCESSED FS18A.
SQ SEQUENCE 76 AA; 7556 MW; 0C3FB299AE7DB57 CRC64;

Query Match 7.4%; Score 6; DB 10; Length 76;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LSSLLC 11
Db 68 LSSLLC 73

RESULT 7
Q9PSV0 PRELIMINARY; PRT; 77 AA.
AC Q9PSV0;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Conserved hypothetical protein.
GN B5022.20.
OS Neurospora crassa.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
OC Sordariales; Sordariaceae; Neurospora.
OX NCBI_TaxID=5141;
RN [1]
RP SEQUENCE FROM N.A.
RA Schulte U., Aign V., Hoheisel J., Brandt P., Fartmann B., Holland R.,
RA Nvakatura G., Mewes H.W., Mannhaupt G.;
RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA German Neurospora genome project;
RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AL355932; CAB91421.1; -.
KW Hypothetical protein.
SQ SEQUENCE 77 AA; 8846 MW; D6FD4B9CB299A7E3 CRC64;

Query Match 7.4%; Score 6; DB 3; Length 77;
Best Local Similarity 100.0%; Pred. No. 96;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 LCILLL 15
Db 62 LCILLL 67

RESULT 8
Q9AITS PRELIMINARY; PRT; 78 AA.
AC Q9AITS;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Hypothetical protein SPY0105.

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GN SPY0105.
OS Streptococcus pyogenes.
OC Bacteria; Firmicutes; Bacillus/Clostridium group; Lactobacillales;
OC Streptococcaceae; Streptococcus.
OX NCBI_TaxID=1314;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=SF370 / ATCC 700294 / SEROTYPE M1;
RX MEDLINE=21192684; PubMed=11296296;
RA Ferretti J.J., McShan W.M., Ajdic D.J., Savic D.J., Savic G., Lyon K.,
RA Primeaux C., Sezate S., Suvoarov A.N., Kenton S., Lai H.S., Lin S.P.,
RA Qian Y., Jia H.G., Najjar F.Z., Ren Q., Zhu H., Song L., White J.,
RA Yuan X., Clifton S.W., Roe B.A., McLaughlin R.;
RT "Complete genome sequence of an M1 strain of Streptococcus pyogenes.";
RL Proc. Natl. Acad. Sci. U.S.A. 98:4658-4663(2001).
DR EMBL; AE006481; AAK33223.1; -.
KW Hypothetical protein; Complete proteome.
SQ SEQUENCE 78 AA; 8898 MW; 6EC41E2909801EE1 CRC64;

Query Match 7.4%; Score 6; DB 16; Length 78;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LVLSSL 9
Db 13 LVLSSL 18

RESULT 9
Q9ILCI PRELIMINARY; PRT; 79 AA.
AC Q9ILCI;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE ORF124 (Wsv247) (WSSV302).
OS White spot syndrome virus (WSSV).
OC Viruses; unclassified viruses.
OX NCBI_TaxID=92652;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21342572; PubMed=11448154;
RA van Hulten M.C.W., Witteveldt J., Peters S., Kloosterboer N.,
RA Tarchini R., Fiers M., Sandbrink H., Lankhorst R.K., Vlak J.M.;
RL "The white spot syndrome virus DNA genome sequence.";
RN [2]
RP SEQUENCE FROM N.A.
RA van Hulten M.C.W., Witteveldt J., Peters S., Kloosterboer N.,
RA Tarchini R., Fiers M., Sandbrink H., Lankhorst R.K., Vlak J.M.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=21548311; PubMed=11689662;
RA Yang F., He J., Lin X., Li Q., Pan D., Zhang X., Xu X.;
RT "Complete genome sequence of the shrimp white spot bacilliform
RT virus.";
RL J. Virol. 75:11811-11820(2001).
RN [4]
RP SEQUENCE FROM N.A.
RA Yang F., He J., Lin X., Li Q., Pan D., Zhang X., Xu X.;
RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
RN [5]
RP SEQUENCE FROM N.A.
RC STRAIN=TAIWAN;
RX MEDLINE=20517548; PubMed=11062040;
RA Tsai M.F., Yu H.T., Tzeng H.F., Leu J.H., Chou C.M., Huang C.J.,
RA Wang C.H., Lin J.Y., Kou G.H., Lo C.F.;
RT "Identification and characterization of a shrimp white spot syndrome
RT virus (WSSV) gene that encodes a novel chimeric polypeptide of
RT cellular-type thymidine kinase and thymidylate kinase.";
RL Virology 277:100-110(2000).
RN [6]

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RP SEQUENCE FROM N.A.
RC STRAIN=TAIWAN;
RX MEDLINE=21844071; PubMed=11853398;
RA Chen L.L., Liu J.H., Huang C.J., Chou C.M., Chen S.M., Wang C.H.,
  Lo C.F., Kou G.H.;
RT "Identification of a nucleocapsid protein (NP35) gene of shrimp white
RT spot syndrome virus and characterization of the motif important for
RT targeting NP35 to the nuclei of transfected insect cells.";
RL Virology 293:44-53 (2002).
RN [7]
RP SEQUENCE FROM N.A.
RC STRAIN=TAIWAN;
RA Lo C.-F., Kou G.-H.;
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF369029; AAK7793.1; -
DR EMBL; AF332093; AAL33250.1; -
DR EMBL; AF440570; AAL89170.1; -
SQ SEQUENCE 79 AA; 9285 MW; 734EE8DBB60FDA86 CRC64;

Query Match 7.4%; Score 6; DB 12; Length 79;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 VLSSLL 10
DB 58 VLSSLL 63
|||||

RESULT 10
Q9PD22 ID Q9PD22 PRELIMINARY; PRT; 79 AA.
AC Q9PD22, 2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DE Single-stranded DNA binding protein.
GN xfl558
OS Xylella fastidiosa.
OC Bacteria; Proteobacteria; gamma subdivision; Xanthomonas group;
OC Xylella.
OX NCBI_TaxID=2371;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=9A5C;
RX MEDLINE=20365717; PubMed=10910347;
RA Simpson A.J.G., Reinach F.C., Arruda P., Abreu F.A., Acencio M.,
  Alvaranga R., Alves L.M.C., Araya J.E., Baia G.S., Baptista C.S.,
  Barros M.H., Bonaccorsi E.D., Bordin S., Bove J.M., Briones M.R.S.,
  Bueno M.R.P., Camargo A.A., Camargo L.E.A., Carraro D.M., Carter H.,
  Colauto N.B., Colombo C., Costa F.F., Costa M.C.R., Costa-Neto C.M.,
  Coutinho L.L., Cristofani M., Dias-Ferreira V.C.A., Docena C., El-Dorry H.,
  Facincani A.P., Ferreira A.J.S., Ferreira V.C.A., Ferro J.A.,
  Fraga J.S., Franca S.C., Franco M.C., Frohme M., Furlan L.R.,
  Garnier M., Goldman G.H., Goldman M.H.S., Gomes S.L., Gruber A.,
  Ho P.L., Hoheisel J.D., Junqueira M.L., Kemper E.L., Kitajima J.P.,
  Krieger J.E., Kuramae E.E., Laigret F., Lambais M.R., Leite L.C.C.,
  Lemos E.G.M., Lemos M.V.F., Lopes S.A., Lopes C.R., Machado J.A.,
  Machado M.A., Madeira A.M.B.N., Madeira H.M.F., Marino C.L.,
  Marques M.V., Martins E.A.L., Martins E.M.F., Matsukuma A.Y.,
  Menck C.F.M., Miracca E.C., Miyaki C.Y., Monteiro-Vitorello C.B.,
  Moon D.H., Nagai M.A., Nascimento A.L.T.O., Netto L.E.S.,
  Nhani A., Jr., Nobrega F.G., Nunes L.R., Oliveira M.A.,
  de Oliveira M.C., de Oliveira R.C., Palmieri D.A., Paris A.,
  Peixoto B.R., Pereira G.A.G., Pereira H.A. Jr., Pesquero J.B.,
  Quaggio R.B., Roberto P.G., Rodrigues V., de Rosa A.J.M.,
  de Rosa V.E. Jr., de Sa R.G., Santelli R.V., Sawasaki H.E.,
  da Silva A.C.R., da Silva A.M., da Silva F.R., Silva W.A. Jr.,
  da Silva J.F., Silvestri M.L.Z., Siqueira W.J., de Souza A.A.,
  de Souza A.P., Terenzi M.F., Truffi D., Tsai S.M., Tsubako M.H.,
  Vallada H., Van Sluys M.A., Verjovski-Almeida S., Vettore A.L.,
  Zago M.A., Zatz M., Meidanis J., Setubal J.C.;
RT "The genome sequence of the plant pathogen Xylella fastidiosa.";
RL Nature 406:151-159 (2000).

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DR EMBL; AE003985; AAF84367.1; -
DR HSP; P02339; 1EYC.
DR InterPro; IPR000424; SSB_protein.
DR Pfam; PF00436; SSB; 1.
KW Complete proteome.
SQ SEQUENCE 79 AA; 8935 MW; 2DEEA09C35D4EADD CRC64;

Query Match 7.4%; Score 6; DB 16; Length 79;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 RRPAAK 31
DB 53 RRPAAK 58
|||||

RESULT 11
Q9S906 ID Q9S906 PRELIMINARY; PRT; 23 AA.
AC Q9S906;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Antifungal protein (Fragment).
OS Triticum aestivum (Wheat).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Poideae;
OC Triticeae; Triticum.
OX NCBI_TaxID=4565;
RN [1]
RP SEQUENCE.
RX MEDLINE=92190627; PubMed=1799695;
RA Vigers A.J., Roberts W.K., Selitrennikoff C.P.;
RT "A new family of plant antifungal proteins.";
RL Mol. Plant Microbe Interact. 4:315-323 (1991).
DR InterPro; IPR001938; Thaumatin.
DR Pfam; PF00314; Thaumatin; 1.
FT NON_TER 1 1
FT NON_TER 23 23
SQ SEQUENCE 23 AA; 2291 MW; C3D88E4A72C21D7 CRC64;

Query Match 6.2%; Score 5; DB 10; Length 23;
Best Local Similarity 100.0%; Pred. No. 4.1e-02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 PGALP 79
DB 15 PGALP 19
|||||

RESULT 12
Q94XE2 ID Q94XE2 PRELIMINARY; PRT; 24 AA.
AC Q94XE2;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE NADH dehydrogenase subunit 4 (Fragment).
GN NAD4.
OS Tectocoris diophthalmus (cotton harlequin bug).
OG Mitochondrion.
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pserygota; Neoptera; Paraneoptera; Hemiptera; Euhemiptera;
OC Heteroptera; Panheteroptera; Pentatomomorpha; Pentatomoidea;
OC Pentatomidae; Tectocoris.
OX NCBI_TaxID=159956;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21396409; PubMed=11504862;
RA Shao R., Campbell N.J.H., Schmidt E.R., Barker S.C.;
RT "Increased rate of gene rearrangement in the mitochondrial genomes of
RT three orders of hemipteroid insects.";
RL Mol. Biol. Evol. 18:1828-1832 (2001).

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DR EMBL; AF335991; AAK55287.1; --

KW Mitochondrion. 1

FT NON_TER 1

SQ SEQUENCE 24 AA; 2871 MW; 972B55027DC29675 CRC64;

Query Match 6.2%; Score 5; DB 8; Length 24;

Best Local Similarity 100.0%; Pred. No. 4.2e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 17 FSIFS 21

Db 2 FSIFS 6

RESULT 13

ID Q9QUX1

AC Q9QUX1; PRELIMINARY; PRT; 25 AA.

DT 01-MAY-2000 (TrEMBLrel. 13, Created)

DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)

DT 01-JUN-2000 (TrEMBLrel. 14, Last annotation update)

DE N-acetyl-beta-D-hexosaminidase (EC 3.2.1.52) (Fragment).

OS Rattus sp.

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

OX NCBI_TaxID=10118;

RN [1]

RP SEQUENCE.

RX MEDLINE=96249836; PubMed=8924513;

RA Hall J.C., Perez F.M., Kochins J.G., Pettersen C.A., Li Y.,

RA Tubbs C.E., LaMarche M.D.;

RT "Quantification and localization of N-acetyl-beta-D-hexosaminidase in

RT the adult rat testis and epididymis.";

RL Biol. Reprod. 54:914-929(1996).

SQ SEQUENCE 25 AA; 2722 MW; CBC97D5B4ED97CA0 CRC64;

Query Match

Best Local Similarity 100.0%; Pred. No. 4.4e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 46 SPNST 50

Db 17 SPNST 21

RESULT 14

ID Q9PWR9

AC Q9PWR9; PRELIMINARY; PRT; 25 AA.

DT 01-MAY-2000 (TrEMBLrel. 13, Created)

DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)

DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)

DE Melanoma receptor tyrosine kinase (Fragment).

OS Xiphophorus maculatus (Southern platyfish).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;

OC Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha;

OC Cyprinodontiformes; Poeciliidae; Xiphophorus.

OX NCBI_TaxID=8083;

RN [1]

RP SEQUENCE FROM N.A.

RX STRAIN=ONC SR-STRAIN;

RC MEDLINE=99132631; PubMed=9931413;

RA Scharl M., Wilde B., Hornung U.;

RT "Triplet repeat variability in the signal peptide sequence of the Xmrk

RT receptor tyrosine kinase gene in Xiphophorus fish.";

RL Gene 224:17-21(1998).

DR EMBL; U82804; AAD10123.1; --

FT NON_TER 25

SQ SEQUENCE 25 AA; 2695 MW; 967AF74362DF4350 CRC64;

Query Match

Best Local Similarity 100.0%; Pred. No. 4.6e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Best Local Similarity 100.0%; Pred. No. 4.4e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LLVLS 7

Db 14 LLVLS 18

RESULT 15

Q9S907

ID Q9S907; PRELIMINARY; PRT; 26 AA.

AC Q9S907;

DT 01-MAY-2000 (TrEMBLrel. 13, Created)

DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)

DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)

DE Antifungal protein (Fragment).

OS Avena sativa (Oat).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;

OC Aveneae; Avena.

OX NCBI_TaxID=4498;

RN [1]

RP SEQUENCE.

RX MEDLINE=92190627; PubMed=1799695;

RA Vigers A.J., Roberts W.K., Selltremlnikoff C.P.;

RT "A new family of plant antifungal proteins.";

RL Mol. Plant Microbe Interact. 4:315-323(1991).

DR InterPro; IPR001938; Thaumatin.

DR Pfam; PF00314; Thaumatin.1.

FT NON_TER 1

FT NON_TER 26

SQ SEQUENCE 26 AA; 2648 MW; 57C46A9E388E4A72 CRC64;

Query Match

Best Local Similarity 100.0%; Pred. No. 4.6e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 75 PGALP 79

Db 15 PGALP 19

Search completed: May 16, 2003, 15:35:05

Job time : 33 secs

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OM protein - protein search, using sw model

Run on: May 16, 2003, 15:34:30 ; Search time 29 Seconds
(without alignments)
82.181 Million cell updates/sec

Title: US-09-724-000A-5

Perfect score: 81
Sequence: 1 MRLLVLSLLCILLCSIF.....PCKLEPEPRLMVVGALPQV 81

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 262574 seqs, 29422922 residues

Word size : 0

Total number of hits satisfying chosen parameters: 51475

Minimum DB seq length: 23

Maximum DB seq length: 80

Post-processing: Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/1/iaa/5A COMB.pap.*
2: /cgn2_6/ptodata/1/iaa/5B COMB.pap.*
3: /cgn2_6/ptodata/1/iaa/6A COMB.pap.*
4: /cgn2_6/ptodata/1/iaa/6B COMB.pap.*
5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pap.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5	6.2	23	1 US-08-086-428B-159	Sequence 159, App
2	5	6.2	23	2 US-08-468-570-159	Sequence 159, App
3	5	6.2	23	2 US-08-290-665A-263	Sequence 263, App
4	5	6.2	23	4 US-08-469-260A-400	Sequence 400, App
5	5	6.2	23	5 PCT-US95-10398-263	Sequence 263, App
6	5	6.2	24	1 US-07-928-930A-7	Sequence 7, Appli
7	5	6.2	24	1 US-08-288-568-7	Sequence 7, Appli
8	5	6.2	24	1 US-08-487-461-7	Sequence 7, Appli
9	5	6.2	24	1 US-08-432-691-7	Sequence 7, Appli
10	5	6.2	24	1 US-08-487-459-7	Sequence 7, Appli
11	5	6.2	24	4 US-09-288-143-127	Sequence 127, App
12	5	6.2	27	1 US-08-066-325-89	Sequence 89, Appl
13	5	6.2	27	4 US-08-965-762-8	Sequence 8, Appli
14	5	6.2	27	4 US-08-487-461-7	Sequence 8, Appli
15	5	6.2	27	4 US-09-911-927-8	Sequence 8, Appli
16	5	6.2	28	4 US-09-507-819-30	Sequence 30, Appl
17	5	6.2	29	1 US-08-066-325-61	Sequence 61, Appl
18	5	6.2	29	1 US-08-066-325-74	Sequence 74, Appl
19	5	6.2	29	1 US-08-066-325-75	Sequence 75, Appl
20	5	6.2	29	2 US-08-419-061A-5	Sequence 5, Appli
21	5	6.2	29	2 US-08-485-647A-5	Sequence 5, Appli
22	5	6.2	29	4 US-09-507-819-46	Sequence 46, Appl
23	5	6.2	29	4 US-09-028-274A-5	Sequence 5, Appli
24	5	6.2	30	1 US-08-066-325-60	Sequence 60, Appl
25	5	6.2	30	4 US-09-043-293-1	Sequence 1, Appli
26	5	6.2	30	4 US-09-511-023-5	Sequence 5, Appli
27	5	6.2	31	1 US-08-066-325-76	Sequence 76, Appl

28	5	6.2	31	1 US-08-066-325-77	Sequence 77, Appl
29	5	6.2	31	1 US-08-066-325-78	Sequence 78, Appl
30	5	6.2	31	4 US-09-507-819-48	Sequence 48, Appl
31	5	6.2	32	4 US-09-461-697-157	Sequence 157, App
32	5	6.2	32	4 US-09-227-357-207	Sequence 207, App
33	5	6.2	34	1 US-07-915-247A-21	Sequence 21, Appl
34	5	6.2	34	1 US-08-448-863-21	Sequence 21, Appl
35	5	6.2	34	1 US-08-448-070-21	Sequence 21, Appl
36	5	6.2	34	1 US-08-449-500-21	Sequence 21, Appl
37	5	6.2	34	1 US-08-449-317A-21	Sequence 21, Appl
38	5	6.2	34	2 US-08-477-022-21	Sequence 21, Appl
39	5	6.2	34	2 US-08-449-447-21	Sequence 21, Appl
40	5	6.2	34	2 US-08-184-328-21	Sequence 21, Appl
41	5	6.2	34	2 US-08-521-097-21	Sequence 21, Appl
42	5	6.2	35	1 US-08-449-500-84	Sequence 84, Appl
43	5	6.2	35	1 US-08-449-317A-84	Sequence 84, Appl
44	5	6.2	35	2 US-08-477-022-84	Sequence 84, Appl
45	5	6.2	35	2 US-08-449-447-84	Sequence 84, Appl

ALIGNMENTS

RESULT 1
US-08-086-428B-159
; Sequence 159, Application US/08086428B
; Patent No. 5514539
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE
; TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
; TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN
; TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 159
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/086,428B
; FILING DATE: 29-JUN-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4070
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 159:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
US-08-086-428B-159

Query Match 6.2%; Score 5; DB 1; Length 23;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 LVLSS 8

Db 4 LVLSS 8
|||||

RESULT 2

US-08-468-570-159
; Sequence 159, Application US/08468570
; Patent No. 5871962
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE
; TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
; TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN
; TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 159
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,570
; FILING DATE: 6-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29-JUN-1993
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4070US1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 159:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
US-08-468-570-159

Query Match 6.2%; Score 5; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LVLSS 8
|||||
Db 4 LVLSS 8

RESULT 3

US-08-230-665A-263
; Sequence 263, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 263:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
US-08-290-665A-263

Query Match 6.2%; Score 5; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LVLSS 8
|||||
Db 4 LVLSS 8

RESULT 4

US-08-469-260A-400
; Sequence 400, Application US/08469260A
; Patent No. 6451578
; GENERAL INFORMATION:
; APPLICANT: JOHN N. SIMONS
; APPLICANT: TAMI J. PILOT-MATIAS
; APPLICANT: GEORGE J. DAWSON
; APPLICANT: GEORGE G. SCHLAUDER
; APPLICANT: SURESH M. DESAI
; APPLICANT: THOMAS P. LEARY
; APPLICANT: ANTHONY SCOTT MUERHOFF
; APPLICANT: JAMES C. ERKER
; APPLICANT: SHERI L. BUIJK
; APPLICANT: ISA K. MUSHAWAR
; TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 716
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ABBOTT LABORATORIES D377/AP6D
; STREET: 100 ABBOTT PARK ROAD
; CITY: ABBOTT PARK
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/469,260A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/424,550
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: POREMBSKI, PRISCILLA E.
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 5527.PC.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-6365
; TELEFAX: 708-938-2623
; INFORMATION FOR SEQ ID NO: 400:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-469-260A-400

Query Match 6.2%; Score 5; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 24 GKRRP 28
|
|
|
|
Db 8 GKRRP 12

RESULT 5
PCT-US95-10398-263
; Sequence 263, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 263:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; PCT-US95-10398-263

Query Match 6.2%; Score 5; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LVLSS 8
|
|
|
|
Db 4 LVLSS 8

RESULT 6
US-07-928-930A-7
; Sequence 7, Application US/07928930A
; Patent No. 5344822
; GENERAL INFORMATION:
; APPLICANT: Levine, Daniel M.; Parker, Thomas S.;
; APPLICANT: Rubin, Albert L.
; TITLE OF INVENTION: Methods Useful in Endotoxin
; TITLE OF INVENTION: Prophylaxis and Therapy
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/928,930A
; FILING DATE: 19920812
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5344822man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: ROGO 206
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; US-07-928-930A-7

Query Match 6.2%; Score 5; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LSSLL 10
|
|
|
|
Db 5 LSSLL 9

RESULT 7
US-08-288-568-7
; Sequence 7, Application US/08288568
; Patent No. 5506218
; GENERAL INFORMATION:
; APPLICANT: Parker, Thomas S.; Levine, Daniel M.;
; APPLICANT: Rubin, Albert L.; Gordon, Bruce R.; Saal, Stuart D.

;
; TITLE OF INVENTION: Methods Useful in Endotoxin Based
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb
; MEDIUM TYPE: storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/288,568
; FILING DATE: 10-AUGUST-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/07453
; FILING DATE: 9-AUGUST-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/928,930
; FILING DATE: 12-AUGUST-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5506218man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: ROGO 211
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; US-08-288-568-7

Query Match 6.2%; Score 5; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LSSLL 10
Db 5 LSSLL 9

RESULT 8
US-08-487-461-7
; Sequence 7, Application US/08487461
; Patent No. 5587366
; GENERAL INFORMATION:
; APPLICANT: Parker, Thomas S.; Levine, Daniel M.;
; APPLICANT: Rubin, Albert L.; Gordon, Bruce R.; Saal, Stuart D.
; TITLE OF INVENTION: Methods Useful in Endotoxin Based
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb
; MEDIUM TYPE: storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 07/928,930
; FILING DATE: 12-AUGUST-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5614507man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: ROGO 211
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200

;
; APPLICATION NUMBER: US/08/487,461
; FILING DATE: June 7, 1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/07453
; FILING DATE: 9-AUGUST-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/928,930
; FILING DATE: 12-AUGUST-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5587366man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: ROGO 211.2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; US-08-487-461-7

Query Match 6.2%; Score 5; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LSSLL 10
Db 5 LSSLL 9

RESULT 9
US-08-432-691-7
; Sequence 7, Application US/08432691
; Patent No. 5614507
; GENERAL INFORMATION:
; APPLICANT: Parker, Thomas S.; Levine, Daniel M.;
; APPLICANT: Rubin, Albert L.; Gordon, Bruce R.; Saal, Stuart D.
; TITLE OF INVENTION: Methods Useful in Endotoxin Based
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb
; MEDIUM TYPE: storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/432,691
; FILING DATE: 02-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/288,568
; FILING DATE: 10-AUGUST-1994
; APPLICATION NUMBER: PCT/US93/07453
; FILING DATE: 9-AUGUST-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/928,930
; FILING DATE: 12-AUGUST-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5614507man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: ROGO 211
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200

TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-432-691-7

Query Match 6.2%; Score 5; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LSSLL 10
Db 5 LSSLL 9

RESULT 10

US-08-487-459-7
Sequence 7, Application US/08487459
Patent No. 5674855
GENERAL INFORMATION:
APPLICANT: Levine, Daniel M.; Parker, Thomas S.;
APPLICANT: Rubin, Albert L.; Gordon, Bruce R.; Saal, Stuart D.
TITLE OF INVENTION: Methods Useful in Endotoxin Based
TITLE OF INVENTION: Prophylaxis and Therapy
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb
MEDIUM TYPE: storage

COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,459
FILING DATE: 7-JUNE-1995
CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/07453
FILING DATE: 9-AUGUST-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/928,930
FILING DATE: 12-AUGUST-1992
ATTORNEY/AGENT INFORMATION:
NAME: Handon, No. 5674855man D.
REGISTRATION NUMBER: 30,945
REFERENCE/DOCKET NUMBER: ROGO 211.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884

INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-487-459-7

Query Match 6.2%; Score 5; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LSSLL 10
Db 5 LSSLL 9

RESULT 11
US-09-288-143-127
Sequence 127, Application US/09288143
Patent No. 6433139
GENERAL INFORMATION:
APPLICANT: Brewer et al.
TITLE OF INVENTION: 53 Human Secreted Proteins
FILE REFERENCE: P2018P1
CURRENT APPLICATION NUMBER: US/09/288,143
CURRENT FILING DATE: 1999-04-08
EARLIER APPLICATION NUMBER: PCT/US98/21142
EARLIER FILING DATE: 1998-10-08
EARLIER APPLICATION NUMBER: 60/061,463
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/061,529
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/071,498
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/061,527
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/061,536
EARLIER FILING DATE: 1997-10-09
EARLIER APPLICATION NUMBER: 60/061,532
EARLIER FILING DATE: 1997-10-09
NUMBER OF SEQ ID NOS: 219
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 127
LENGTH: 24
TYPE: PRT
ORGANISM: Homo sapiens
US-09-288-143-127

Query Match 6.2%; Score 5; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LVLSS 8
Db 9 LVLSS 13

RESULT 12

US-08-066-325-89
Sequence 89, Application US/08066325
Patent No. 5667967

GENERAL INFORMATION:

APPLICANT: Steinman, Lawrence
APPLICANT: Oksenberg, Jorge
APPLICANT: Bernard, Claude
TITLE OF INVENTION: T-CELL RECEPTOR VARIABLE TRANSCRIPTS AS DISEASE RELATED MARKER
NUMBER OF SEQUENCES: 157
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/066,325
FILING DATE: 21-MAY-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 5667967tenburg Ph.D., Carol
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 690068.408C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-066-325-89

Query Match 6.2%; Score 5; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RLLVL 6
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|
Db 18 RLLVL 22

RESULT 13
US-08-965-762-8
; Sequence 8, Application US/08965762
; Patent No. 6280963
; GENERAL INFORMATION:
; APPLICANT: Koltin, Yigal
; APPLICANT: Gavrias, Victoria
; TITLE OF INVENTION: ESSENTIAL FUNGAL GENES AND THEIR USE
; FILE REFERENCE: 07334/062001
; CURRENT APPLICATION NUMBER: US/08/965,762
; CURRENT FILING DATE: 1997-11-07
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Aspergillus nidulans
US-08-965-762-8

Query Match 6.2%; Score 5; DB 4; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 CILLL 15
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Db 4 CILLL 8

RESULT 14
US-09-911-927-8
; Sequence 8, Application US/09911927
; Patent No. 6461826
; GENERAL INFORMATION:
; APPLICANT: Koltin, Yigal
; APPLICANT: Gavrias, Victoria
; TITLE OF INVENTION: ESSENTIAL FUNGAL GENES AND THEIR USE
; FILE REFERENCE: 06286-062003
; CURRENT APPLICATION NUMBER: US/09/911,927
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 08/965,762
; PRIOR FILING DATE: 1997-11-07
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Aspergillus nidulans
US-09-911-927-8

Query Match 6.2%; Score 5; DB 4; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 CILLL 15

Db 4 CILLL 8
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|
|
|

RESULT 15
US-09-911-882-8
; Sequence 8, Application US/09911882
; Patent No. 6465198
; GENERAL INFORMATION:
; APPLICANT: Koltin, Yigal
; APPLICANT: Gavrias, Victoria
; TITLE OF INVENTION: ESSENTIAL FUNGAL GENES AND THEIR USE
; FILE REFERENCE: 06286-062004
; CURRENT APPLICATION NUMBER: US/09/911,882
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 08/965,762
; PRIOR FILING DATE: 1997-11-07
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Aspergillus nidulans
US-09-911-882-8

Query Match 6.2%; Score 5; DB 4; Length 27;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 CILLL 15
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|
|
|
Db 4 CILLL 8

Search completed: May 16, 2003, 15:36:11
Job time : 38 secs

GenCore version 5.1.4.p5.4578
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OM protein - nucleic search, using frame_plus_p2n model

Run on: May 17, 2003, 03:26:33 ; Search time 2182 Seconds
(without alignments)
1080.352 Million cell updates/sec

Title: US-09-724-000A-5
Perfect score: 442
Sequence: 1 MRLVLSSLLCILLCSIF.....PCKLEPRLWVWPALPQV 81

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

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Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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2: gb.htg.*
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4: gb.om.*
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6: gb.pat.*
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11: gb.sts.*
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13: gb.un.*
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15: em.ba.*
16: em.fun.*
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27: em.sts.*
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42: em.htgo.other.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	442	100.0	382	6	AX340424 Sequence
C 2	442	100.0	485	6	AX351259 Sequence
C 3	442	100.0	804	6	AX464016 Sequence
C 4	442	100.0	806	6	AX342218 Sequence
C 5	442	100.0	2063	9	AK025416 Homo sapi
C 6	400	90.5	797	6	AX027773 Sequence
C 7	400	90.5	801	6	AX027767 Sequence
C 8	228.5	51.7	744	6	AX342215 Sequence
C 9	183	41.4	744	10	AF152002 Rattus no
C 10	178	40.3	4159	6	AX342222 Sequence
C 11	178	40.3	198481	9	AC022389 Homo sapi
C 12	160.5	36.3	742	10	S74257 S74257 2c9 gene (c
C 13	111.5	25.2	137164	2	AC128725 Rattus no
C 14	106.5	24.1	225929	2	AC109260 Mus muscu
C 15	92	20.8	207374	9	CNS07EFU AL583722 Human chr
C 16	88.5	20.0	173235	2	AC106276 Rattus no
C 17	87.5	19.8	118429	2	AL158017 Homo sapi
C 18	87.5	19.8	198906	9	AL356275 Human DNA
C 19	86.5	19.6	2167	6	A37236 Sequence 5
C 20	86.5	19.6	2168	4	BOVPRG MI3976 Bovine gamm
C 21	86.5	19.6	108071	2	AC123218 Rattus no
C 22	86.5	19.6	161044	2	AC119102 Homo sapi
C 23	86.5	19.6	176092	2	AC073252 Homo sapi
C 24	86	19.5	170000	2	AC004394 Homo sapi
C 25	86	19.5	170000	2	AC004579 Homo sapi
C 26	86	19.5	190000	2	AC004580 Homo sapi
C 27	86	19.5	210515	9	AC097382 Homo sapi
C 28	85.5	19.3	10647	1	AE002031 Deinococc
C 29	85.5	19.3	110000	2	LMFLCHR36_10 Continuation (11 o
C 30	85.5	19.3	161112	2	AC115876 Mus muscu
C 31	85	19.2	853	9	BC002624 Homo sapi
C 32	85	19.2	876	9	BC001181 Homo sapi
C 33	85	19.2	1688	6	AR035537 Sequence
C 34	85	19.2	1688	6	E11457 E11457 cDNA encodi
C 35	85	19.2	1934	9	BC007790 Homo sapi
C 36	85	19.2	1979	6	AR035536 Sequence
C 37	85	19.2	1979	6	E11456 E11456 cDNA encodi
C 38	85	19.2	2010	9	HSU07132 Human stero
C 39	85	19.2	2030	6	I36667 I36667 Sequence 1
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C 41	85	19.2	2384	9	AK091535 Homo sapi
C 42	85	19.2	157375	2	AC122095 Rattus no
C 43	85	19.2	195983	2	AC099699 Mus muscu
C 44	84.5	19.1	2140	10	AF163665 Mus muscu
C 45	84.5	19.1	2398	10	AF282322 Mus muscu

ALIGNMENTS

RESULT 1

AX340424/c
LOCUS AX340424 382 bp DNA linear PAT 10-JAN-2002
DEFINITION Sequence 671 from Patent WO0196388.
ACCESSION AX340424
VERSION AX340424.1 GI:18136406
KEYWORDS human.
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo;
1
REFERENCE
AUTHORS Jiang, Y., Harlocker, S.I. and Secrist, H.
TITLE Compositions and methods for the therapy and diagnosis of colon cancer
JOURNAL Patent: WO 0196388-A 671 20-DEC-2001;
CORIXA CORPORATION (US)
FEATURES
source 1. .382
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 76 a 94 c 122 g 86 t 4 others
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Alignment Scores:
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Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0
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Qy 1 MetArgLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20
Db 301 ATGAGGCTTCCTAGTCTTCCAGCGCTGCTGTATCTCTGCTTCTCCATCTTC 242
Qy 21 SerThrGluGlyLysArgProAlaLysAlaTTPSerGlyArgGlyArgGlyCys 40
Db 241 TCCACAGAGGGAAGAGCGCTCTCCAGCGCTGCTGAGGAGCAACAGGCTCTGC 182
Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCys 60
Db 181 TGCCACCGAGTCCCTAGCCCACTCAACAACTGAAAGGACATCATGTGAGGCTCTGT 122
Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80
Db 121 AAACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGGTGGTGGCGGCACTCCACAG 62
Qy 81 Val 81
Db 61 GTG 59
RESULT 2
LOCUS AX351259 485 bp DNA linear PAT 06-FEB-2002
DEFINITION Sequence 6 from Patent WO0196390.
ACCESSION AX351259
VERSION AX351259.1 GI:18616606
KEYWORDS human.
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo;
1
REFERENCE
AUTHORS Jiang, Y., Hepler, W.T., Clapper, J.D., Wang, A. and Secrist, H.
TITLE Compositions and methods for the therapy and diagnosis of colon cancer
JOURNAL Patent: WO 0196390-A 6 20-DEC-2001;
CORIXA CORPORATION (US)
FEATURES
source 1. .485
Location/Qualifiers
/organism="Homo sapiens"

/db_xref="taxon:9606"
BASE COUNT 109 a 155 c 124 g 97 t
ORIGIN
Alignment Scores:
Pred. No.: 1.59e-33 Length: 485
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0
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Qy 1 MetArgLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20
Db 79 ATGAGGCTTCCTAGTCTTCCAGCGCTGCTGTATCTCTGCTTCTCCATCTTC 138
Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTTPSerGlyArgGlyArgGlyCys 40
Db 139 TCCACAGAGGGAAGAGCGCTCTCCAGCGCTGCTGAGGAGCAACAGGCTCTGC 198
Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCys 60
Db 199 TGCCACCGAGTCCCTAGCCCACTCAACAACTGAAAGGACATCATGTGAGGCTCTGT 258
Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80
Db 259 AAACCATGCAAGCTTGAGCCAGAGCCCGCTTTGGGTGGTGGCGGCACTCCACAG 318
Qy 81 Val 81
Db 319 GTG 321
RESULT 3
LOCUS AX464016 804 bp DNA linear PAT 16-JUL-2002
DEFINITION Sequence 149 from Patent WO0140466.
ACCESSION AX464016
VERSION AX464016.1 GI:21899025
KEYWORDS human.
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo;
1
REFERENCE
AUTHORS Baker, K.P., Beresini, M., Deforge, L., Desnoyers, L., Filvaroff, E.,
Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,
Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Wood, W.L. and Zhang, Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding same
JOURNAL Patent: WO 0140466-A 149 07-JUN-2001;
Genentech Inc. (US)
FEATURES
source 1. .804
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 199 a 263 c 176 g 166 t
ORIGIN
Alignment Scores:
Pred. No.: 2.74e-33 Length: 804
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0
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Qy 1 MetArgLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20

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Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40
Db 102 TCCACAGAGGAGAGAGCGCTCTGCCAAGCGCTGGTCTAGGAGGAGAACAGGCTCTGC 161
Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCys 60
Db 162 TGCCACCGAGTCCCTAGCCCAACTCAACAACTGAAAGGACATCATGTGAGGCTCTGT 221
Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80
Db 222 AAACATCAAGCTTGTAGCCAGAGCCCGCTTTGGGTGGTGGCTGGGGCACTCCACAG 281
Qy 81 Val 81
Db 282 GTG 284

RESULT 4
AX342218
LOCUS AX342218 806 bp DNA linear PAT 12-JAN-2002
DEFINITION Sequence 4 from Patent WO0198497.
ACCESSION AX342218
VERSION AX342218.1 GI:18151763
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Polverino,A.J. and Luethy,R.
TITLE Secreted epithelial colon stromal-1 polypeptides, nucleic acids
encoding the same and uses thereof
JOURNAL Patent: WO 0198497-A 4 27-DEC-2001;
Angen, Inc. (US)
FEATURES
source 1. 806
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/db xref="taxon:9606"
29 "-" 274
/notes="unnamed protein product"
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/protein_id="CAD20706.1"
/db xref="GI:18151764"
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PSPNSTLKGHVRLCKPKLEPEPRLLVWVGPALPV"
sig_peptide 29. 100
BASE COUNT 207 a 257 c 179 g 163 t
ORIGIN

Alignment Scores:
Pred. No.: 2.75e-33 Length: 806
Score: 442.00 Matches: 81
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 6 Gaps: 0

US-09-724-000A-5 (1-81) x AX342218 (1-806)
Qy 1 MetArgLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePhe 20
Db 29 ATGAGGCTTCAGTCCCTTTCCAGCGCTGCTGTATCTCTGCTTCTCTCTCCATCTTC 88
Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40
Db 89 TCCACAGAGGAGAGAGCGCTCTGCCAAGCGCTGGTCTAGGAGGAGAACAGGCTCTGC 148
Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCys 60
Db 149 TGCCACCGAGTCCCTAGCCCAACTCAACAACTGAAAGGACATCATGTGAGGCTCTGT 208
Qy 61 LysProCysLysLeuGluProGluProArgLeuTrpValProGlyAlaLeuProGln 80
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Db 209 AAACCATGCAAGCTTGTAGCCAGAGCCCGCTTTGGGTGGTGGCTGGGGCACTCCACAG 268
Qy 81 Val 81
Db 269 GTG 271

RESULT 5
AK025416
LOCUS AK025416 2063 bp mRNA linear PRI 29-SEP-2000
DEFINITION Homo sapiens cDNA: FLJ21763 fis, clone COLF6967.
ACCESSION AK025416
VERSION AK025416.1 GI:10437924
KEYWORDS oligo capping; fis (full insert sequence).
SOURCE Homo sapiens colon mucosa cDNA to mRNA, clone lib:ColF
clone:COLF6967.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (sites)
AUTHORS Watanabe,K., Kumagai,A., Itakura,S., Yamazaki,M., Tashiro,H.,
Ota,T., Suzuki,Y., Obayashi,M., Nishi,T., Shibahara,T., Tanaka,T.,
Nakamura,Y., Isogai,T. and Sugano,S.
TITLE NEDO human cDNA sequencing project
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 2063)
AUTHORS Sugano,S., Suzuki,Y., Ota,T., Obayashi,M., Nishi,T., Isogai,T.,
Shibahara,T., Tanaka,T. and Nakamura,Y.
TITLE Direct Submission
JOURNAL Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science,
University of Tokyo, Laboratory of Genome Structure Analysis, Human
Genome Center, Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639,
Japan (E-mail:cdna@ims.u-tokyo.ac.jp, Tel:81-3-5449-5286,
Fax:81-3-5449-5416)
COMMENT NEDO human cDNA sequencing project supported by Ministry of
International Trade and Industry of Japan; cDNA full insert
sequencing: Research Association for Biotechnology; cDNA library
construction, 5'- & 3'-end one pass sequencing: Department of
Virology and Human Genome Center, Institute of Medical Science,
University of Tokyo (partly supported by Science and Technology
Agency).
FEATURES
source 1. 2063
/organism="Homo sapiens"
/db xref="taxon:9606"
/clone="COLF6967"
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BASE COUNT 536 a 479 c 476 g 572 t
ORIGIN

Alignment Scores:
Pred. No.: 7.59e-33 Length: 2063
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Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-09-724-000A-5 (1-81) x AK025416 (1-2063)
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Qy 21 SerThrGluGlyLysArgArgProAlaLysAlaTrpSerGlyArgArgThrArgLeuCys 40
Db 175 TCCACAGAGGAGAGAGCGCTCTGCCAAGCGCTGGTCTAGGAGGAGAACAGGCTCTGC 234
Qy 41 CysHisArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCys 60
Db 235 TGCCACCGAGTCCCTAGCCCAACTCAACAACTGAAAGGACATCATGTGAGGCTCTGT 294
```



```

Db      279  GATA  282
RESULT 13
AC128725/c
LOCUS   AC128725
DEFINITION
Rattus norvegicus clone CH230-30014, *** SEQUENCING IN PROGRESS
***, 54 unordered pieces.
AC128725      137164 bp      DNA      linear      HTG 23-JUL-2002
AC128725.1   GI:21930188
VERSION      HTG; HTGS PHASE1.
KEYWORDS
SOURCE      Rattus norvegicus
ORGANISM    Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 137164)
Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,
Alsbrooks,S.L., Amaratunge,H.C., Are,J.R., Ayale,M., Banks,T.,
Barbaria,J., Benton,J., Bimaga,K., Blankenburg,K., Bonnin,D.,
Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P.,
Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C.,
Carion,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D.,
Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C.,
Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R.,
Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A.,
Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H.,
Dearthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J.,
Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escotto,M.,
Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P.,
Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R.,
Gorell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K.,
Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A., Hernandez,J.,
Hernandez,O., Hodgson,A., Hogue,M., Holloway,C., Hollins,B.,
Homsí,F., Howard,S., Huber,J., Hulyk,S., Hume,J., Jackson,L.E.,
Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S.,
Karissom,B., Kelly,S., Khan,U., King,L., Korvah,J., Kovar,C.,
Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C., Lewis,L.,
Li,J., Li,Z., Licharge,O., Lieu,C., Liu,J., Liu,W., Loulseged,H.,
Lozado,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J.,
Maheshwari,M., Mapua,P., Martin,R., Martindale,A., Martinez,E.,
Massey,E., Mawhiney,E., Mcleod,M.P., Meador,M., Mei,G., Metzker,M.,
Miner,G., Miner,Z., Mitchell,T., Mohabbat,N., Morgan,M., Morris,S.,
Moser,M., Neal,D., Newton,J., Newton,N., Nguyen,A., Nguyen,N.,
Nguyen,N., Nickerson,E., Nwokenwo,S., Oguh,M., Okwuonu,G.,
Oragunye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L.,
Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y.,
Rives,M., Rojas,A., Rojebokan,I., Rolfe,M., Ruiz,S., Savery,G.,
Scherer,S., Scott,G., Shen,H., Shooshtari,N., Sisson,I.,
Sodergren,E., Sonaikar,T., Sparks,A., Stanley,H., Stone,H.,
Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K., Tang,H.,
Tansey,J., Taylor,C., Taylor,T., Telford,B., Thomas,N., Thomas,S.,
Umami,K., Vasquez,L., Vera,V., Villalon,D., Vinson,R., Wang,Q.,
Wang,S., Ward-Moore,S., Warren,R., Washington,C., Wallington,S.,
Williams,G., Williamson,A., Wleczky,R., Wooden,S., Worley,K.,
Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,
Weinstock,G. and Gibbs.R.
Direct Submission
Unpublished
2 (bases 1 to 137164)
Worley,K.C.
Direct Submission
Submitted (23-JUL-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GSIT
Center clone name: CH230-30014
-----

```

Summary Statistics

Sequencing vector: Plasmid;
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990329
Consensus quality: 81651 bases at least Q40
Consensus quality: 85938 bases at least Q30
Consensus quality: 89650 bases at least Q20

NOTE: Estimated insert size may differ from sequence length
(see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
NOTE: This is a 'working draft' sequence. It currently
consists of 54 contigs. The true order of the pieces
is not known and their order in this sequence record is
arbitrary. Gaps between the contigs are represented as
runs of N, but the exact sizes of the gaps are unknown.
This record will be updated with the finished sequence
as soon as it is available and the accession number will
be preserved.

1 1055: contig of 1055 bp in length
1056: gap of unknown length
1156: contig of 1098 bp in length
2253: gap of unknown length
2353: contig of 1482 bp in length
3835: gap of unknown length
5004: contig of 1069 bp in length
5104: gap of unknown length
7028: contig of 1923 bp in length
7127: gap of unknown length
8380: contig of 1253 bp in length
8480: gap of unknown length
9517: contig of 1037 bp in length
9617: gap of unknown length
11124: contig of 1507 bp in length
11224: gap of unknown length
12224: contig of 1000 bp in length
12324: gap of unknown length
13444: contig of 1120 bp in length
13544: gap of unknown length
14548: contig of 1004 bp in length
14648: gap of unknown length
16085: contig of 1417 bp in length
16185: gap of unknown length
17177: contig of 1012 bp in length
17277: gap of unknown length
18704: contig of 1427 bp in length
18804: gap of unknown length
19895: contig of 1091 bp in length
19995: gap of unknown length
21433: contig of 1438 bp in length
21533: gap of unknown length
22767: contig of 1234 bp in length
22867: gap of unknown length
24088: contig of 1201 bp in length
24168: gap of unknown length
25784: contig of 1616 bp in length
25884: gap of unknown length
27104: contig of 1220 bp in length
27204: gap of unknown length
28209: contig of 1005 bp in length
28309: gap of unknown length
30046: contig of 1737 bp in length
30146: gap of unknown length
31379: contig of 1233 bp in length
31479: gap of unknown length
33395: contig of 1916 bp in length
33495: gap of unknown length
35282: contig of 1787 bp in length
35382: gap of unknown length
38059: contig of 2677 bp in length
38159: gap of unknown length
40027: contig of 1868 bp in length
40127: gap of unknown length
42034: contig of 1907 bp in length


```

TITLE
JOURNAL
COMMENT
Zembek, L., Zimmer, A. and Zody, M.
Direct Submission
Submitted (24-AUG-2002) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Aug 24, 2002 this sequence version replaced gi:20336102.
All repeats were identified using RepeatMasker:
Smith, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L20912
Center clone name: 368.G.21
----- Summary Statistics
Sequencing vector: Plasmid; n/a; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 223420 bases at least Q40
Consensus quality: 224295 bases at least Q30
Consensus quality: 224703 bases at least Q20
Insert size: 210000; agarose-fp
Insert size: 225029; sum-of-contigs
Quality coverage: 13.3 in Q20 bases; agarose-fp
Quality coverage: 12.4 in Q20 bases; sum-of-contigs
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 10 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submittor.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.
*
* 1 2073: contig of 2073 bp in length
* 2074 2173: gap of 100 bp
* 2174 3695: contig of 1522 bp in length
* 3696 3795: gap of 100 bp
* 3796 7937: contig of 4142 bp in length
* 7938 8037: gap of 100 bp
* 8038 11164: contig of 3127 bp in length
* 11165 11264: gap of 100 bp
* 11265 27129: contig of 15865 bp in length
* 27130 27229: gap of 100 bp
* 27230 42139: contig of 14910 bp in length
* 42140 42239: gap of 100 bp
* 42240 59229: contig of 16990 bp in length
* 59230 59329: gap of 100 bp
* 59330 78798: contig of 19469 bp in length
* 78799 78898: gap of 100 bp
* 78899 144433: contig of 65535 bp in length
* 144434 144533: gap of 100 bp
* 144534 225929: contig of 81396 bp in length.
*
* Location/Qualifiers
*
* 1..225929
*
* /organism="Mus musculus"
* /db_xref="taxon:10090"
* /clone="RP23-368G21"
* /clone_lib="RPCI-23 Female Mouse BAC"
*
* misc_feature 1..2073
* /note="assembly_fragment
* clone_end:SP6
* vector_side:left"
*
* misc_feature 2174..3695
* /note="assembly_fragment"
*
* misc_feature 3796..7937
* /note="assembly_fragment"
*
* misc_feature 8038..11164
* /note="assembly_fragment"
*
* misc feature 11265..27129

```

----- Summary Statistics
 Assembly program: Phrap; version 2.0

 Overall quality chart :

Range : bases

0 : 8

1 - 9 : 52

10 - 19 : 194

20 - 29 : 888

30 - 39 : 5766

40 - 49 : 10291

50 - 59 : 11885

60 - 69 : 24619

70 - 79 : 59705

80 - 89 : 93966

90 - 99 : 93966

Percentage of bases with a quality value >= 40 : 99 %.

FEATURES

SOURCE

Location/Qualifiers

1. .207374

/organism="Homo sapiens"

/db_xref="taxon:9606"

/chromosome="14"

/clone="R-982M15"

/clone_lib="RPCI-11"

48734..50176

/evidence=not_experimental

/insertion_seq="IS150"

123536..123658

/note="matching EMBL:AA431297

RHdb:RH98436

dbSTS:STS68194

Identified using the e-PCR software (G. Schuler)"

127693..127862

/note="matching EMBL:AA621795

RHdb:RH102965

dbSTS:STS70502

Identified using the e-PCR software (G. Schuler)"

155522..155846

/note="matching EMBL:G19662

RHdb:RH10471

dbSTS:STS13897

Identified using the e-PCR software (G. Schuler)"

155534..155683

/note="matching EMBL:H82735

RHdb:RH53711

dbSTS:STS8268

Identified using the e-PCR software (G. Schuler)"

177768..177923

/note="matching EMBL:AA056416

RHdb:RH47592

dbSTS:STS40651

Identified using the e-PCR software (G. Schuler)"

177906..178028

/note="matching EMBL:AA504155

RHdb:RH101916

dbSTS:STS69453

Identified using the e-PCR software (G. Schuler)"

177971..178228

/note="matching EMBL:M63167

RHdb:RH69160

dbSTS:STS49050

Identified using the e-PCR software (G. Schuler)"

BASE COUNT 46690 a 60047 c 58929 g 41708 t

ORIGIN

Alignment Scores:

Pred. No.: 2.37e+03

Score: 92.00

Percent Similarity: 50.00%

Best Local Similarity: 38.57%

Query Match: 20.81%

Length: 207374

Matches: 27

Conservative: 8

Mismatches: 29

Indels: 6

DB: 9 Gaps: 3

US-09-724-000A-5 (1-81) x CNS07EFU (1-207374)

QY 3 LeuLeuValLeuSerSerLeuLeuCysIleLeuLeuLeuCysPheSerIlePheSerThr 22

Db 130256 CTGTTGGTTTGGTTCTCTTGGCTGTAGCCCACTAAACTGACTTCTCATGGAGCACA 130197

QY 23 GluGlyLysArgArgProAlaLysAlaTyrSerGlyValArgThrArgLeuCysCysHis 42

Db 130196 GAGGAAAAAGAAAAACCA-----GGCTCCAGGAGGGCAGCTCTCTCTGTCTAC 130149

QY 43 ArgValProSerProAsnSerThrAsnLeuLysGlyHisValArgLeuCysLys--- 61

Db 130148 AGGTTCCCCAGTCCCCACCTCTCCAGGCAGGAGGGCGCATGGTCTCACTTGTGCAGATGA 130089

QY 62 ProCysLysLeuGluProGluProArgLeu 71

Db 130088 CCTTGTAGG---TGACCCCACTCACTC 130062

Search completed: May 17, 2003, 11:55:39

Job time : 2310 secs

GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 16, 2003, 15:27:44 ; Search time 39 Seconds
(without alignments)
276.751 Million cell updates/sec

Title: US-09-724-000A-5
Perfect score: 81
Sequence: 1 MRLVLSSLLCILLCSIF.....PCKLEPEPRLWVVGALPQV 81

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 908470 seqs, 133250620 residues

Word size : 0

Total number of hits satisfying chosen parameters: 229602

Minimum DB seq length: 23

Maximum DB seq length: 80

Post-processing: Listing first 45 summaries

Database : A_Geneseq101002.*
1: /SID82/gcgdata/geneseq/geneseq-embl/AA1980.DAT.*
2: /SID82/gcgdata/geneseq/geneseq-embl/AA1981.DAT.*
3: /SID82/gcgdata/geneseq/geneseq-embl/AA1982.DAT.*
4: /SID82/gcgdata/geneseq/geneseq-embl/AA1983.DAT.*
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23: /SID82/gcgdata/geneseq/geneseq-embl/AA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	57	70.4	57	AAE16482	Human Secreted epi
2	30	37.0	30	AAE16485	Human Secreted epi
3	28	34.6	28	AAE16486	Human Secreted epi
4	23	28.4	23	AAE16484	Human Secreted epi
5	9	11.1	54	AAE16480	Mouse Secreted epi
6	9	11.1	77	AAE16483	Rat Secreted epi
7	9	11.1	78	AAE16479	Mouse Secreted epi
8	7	8.6	72	AAI19500	Amino acid sequenc
9	7	8.6	78	AAU45851	Propionibacterium
10	6	7.4	25	AAB39415	Human secreted pro

11	6	7.4	28	AAU05966	Cone snail O-supe
12	6	7.4	31	AAW81050	Signal peptide-cyt
13	6	7.4	32	AAW92181	Human digestive sy
14	6	7.4	39	AAAP30235	Sequence of cortic
15	6	7.4	47	ABP41217	Human ovarian anti
16	6	7.4	48	ABP33769	Human secreted pro
17	6	7.4	52	AAAS6482	Arabidopsis thalia
18	6	7.4	52	AAAS8744	Arabidopsis thalia
19	6	7.4	52	AAUS3929	Propionibacterium
20	6	7.4	52	AAUS6623	Propionibacterium
21	6	7.4	53	ABP33245	Human ORF2218 prot
22	6	7.4	53	ABP34966	Human ORF3939 prot
23	6	7.4	53	ABP34966	Human breast tumor
24	6	7.4	54	AAW72480	Human bone marrow
25	6	7.4	54	AAW32728	Peptide #6765 enco
26	6	7.4	54	ABG42300	Human peptide enco
27	6	7.4	55	AAV91504	Human secreted pro
28	6	7.4	56	AAU55581	Propionibacterium
29	6	7.4	56	ABP07189	Human ORFX protein
30	6	7.4	58	AAW85937	Human immune/haema
31	6	7.4	59	ABP31870	Human ORF843 prote
32	6	7.4	65	AAU22012	Human cardiovascu
33	6	7.4	68	AAAG0986	Arabidopsis thalia
34	6	7.4	69	ABBS22742	Escherichia coli p
35	6	7.4	69	ABP09715	Human ORFX protein
36	6	7.4	70	AAW25064	Plant SDF encoded
37	6	7.4	72	ABW30289	Peptide #2940 enco
38	6	7.4	72	ABW35455	Peptide #2961 enco
39	6	7.4	72	ABW20895	Protein #2894 enco
40	6	7.4	72	AAW56278	Human brain expre
41	6	7.4	72	AAW68653	Human bone marrow
42	6	7.4	72	AAW16469	Peptide #2903 enco
43	6	7.4	72	AAW28962	Peptide #2999 enco
44	6	7.4	72	AAW04197	Peptide #2879 enco
45	6	7.4	72	ABG38233	Human peptide enco

ALIGNMENTS

RESULT 1	
AAE16482	AAE16482 standard; peptide; 57 AA.
ID	AAE16482
XX	XX
XX	AAE16482;
DT	09-APR-2002 (first entry)
XX	XX
DE	Human Secreted epithelial colon stromal-1 (Secs-1) protein fragment.
XX	XX
XX	Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
KW	haematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
KW	Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
KW	diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
KW	anorectic; immunomodulator; antipsoriatic; vulnerary; antiinfertility;
KW	gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
KW	human.
XX	XX
OS	Homo sapiens.
XX	XX
FN	W0200198497-Al.
XX	XX
PD	27-DEC-2001.
XX	XX
XX	28-NOV-2000; 2000WO-US32479.
XX	XX
PR	21-JUN-2000; 2000US-0599087.
XX	XX
XX	28-NOV-2000; 2000US-0724000.
PA	(AMGE-) AMGEN INC.
XX	XX
PI	Polverino AJ, Luethy R;
XX	XX
XX	XX

DR WPI; 2002-122281/16.
 XX Secreted epithelial colon stromal-1 polypeptides and nucleic acids.
 PT useful for diagnosing, treating and preventing hematopoietic disorder.
 PT osteoporosis, Paget's disease, cancer, diabetes -
 XX Claim 14; Page 122; 134pp; English.
 XX The present invention relates to an isolated murine or human secreted
 CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
 CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
 CC therapy and cell therapy. Secs-1 is useful for identifying a compound
 CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
 CC preventing or ameliorating a disease condition such as hematopoietic
 CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
 CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
 CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
 CC is also useful for diagnosing a pathological condition which involves
 CC determining the presence or amount of Secs-1 or polypeptide encoded by
 CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
 CC susceptibility to pathological condition based on the presence or amount
 CC of expression of the polypeptide. The present sequence is human Secs-1
 CC protein fragment.
 XX Sequence 57 AA;
 SQ Query Match 70.4%; Score 57; DB 23; Length 57;
 Best Local Similarity 100.0%; Pred. No. 6.9e-50;
 Matches 57; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 25 KRRPAKWSGRTRLCCHRVSPNSTNLKGHHVRLCKPKLEPEPRLWVPGALPQV 81
 |||||
 DB 1 KRRPAKWSGRTRLCCHRVSPNSTNLKGHHVRLCKPKLEPEPRLWVPGALPQV 57
 |||||
 RESULT 2
 AAE16485
 ID AAE16485 standard; peptide; 30 AA.
 XX
 AC AAE16485;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Human Secreted epithelial colon stromal-1 (Secs-1) peptide #2.
 XX
 KW Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
 KW hematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
 KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
 KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
 KW anorectic; immunomodulator; antipsoriatic; vulnery; antiinfertility;
 KW gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
 KW human.
 XX
 OS Homo sapiens.
 XX
 PN WO200198497-A1.
 XX
 PD 27-DEC-2001.
 XX
 PF 28-NOV-2000; 2000WO-US32479.
 XX
 PR 21-JUN-2000; 2000US-0599087.
 PR 28-NOV-2000; 2000US-0724000.
 XX
 FA (AMGE-) AMGEN INC.
 XX
 PI Polverino AJ, Luethy R;
 XX
 DR WPI; 2002-122281/16.
 DR N-PSDB; AAD27026.
 XX
 PT Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
 PT useful for diagnosing, treating and preventing hematopoietic disorder.

PT osteoporosis, Paget's disease, cancer, diabetes -
 XX Disclosure; Fig 4D; 134pp; English.
 XX The present invention relates to an isolated murine or human secreted
 CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
 CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
 CC therapy and cell therapy. Secs-1 is useful for identifying a compound
 CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
 CC preventing or ameliorating a disease condition such as hematopoietic
 CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
 CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
 CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
 CC is also useful for diagnosing a pathological condition which involves
 CC determining the presence or amount of Secs-1 or polypeptide encoded by
 CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
 CC susceptibility to pathological condition based on the presence or amount
 CC of expression of the polypeptide. The present sequence is human Secs-1
 CC peptide encoded by second exon.
 XX Sequence 30 AA;
 SQ Query Match 37.0%; Score 30; DB 23; Length 30;
 Best Local Similarity 100.0%; Pred. No. 6.1e-23;
 Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 24 GKRPAKWSGRTRLCCHRVSPNSTNLK 53
 |||||
 DB 1 GKRPAKWSGRTRLCCHRVSPNSTNLK 30
 |||||
 RESULT 3
 AAE16486
 ID AAE16486 standard; peptide; 28 AA.
 XX
 AC AAE16486;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Human Secreted epithelial colon stromal-1 (Secs-1) peptide #3.
 XX
 KW Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
 KW hematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
 KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
 KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
 KW anorectic; immunomodulator; antipsoriatic; vulnery; antiinfertility;
 KW gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
 KW human.
 XX
 OS Homo sapiens.
 XX
 PN WO200198497-A1.
 XX
 PD 27-DEC-2001.
 XX
 PF 28-NOV-2000; 2000WO-US32479.
 XX
 PR 21-JUN-2000; 2000US-0599087.
 PR 28-NOV-2000; 2000US-0724000.
 XX
 FA (AMGE-) AMGEN INC.
 XX
 PI Polverino AJ, Luethy R;
 XX
 DR WPI; 2002-122281/16.
 DR N-PSDB; AAD27026.
 XX
 PT Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
 PT useful for diagnosing, treating and preventing hematopoietic disorder,
 PT osteoporosis, Paget's disease, cancer, diabetes -
 XX Disclosure; Fig 4F; 134pp; English.
 PS
 XX

CC The present invention relates to an isolated murine or human secreted
 CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
 CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
 CC therapy and cell therapy. Secs-1 is useful for identifying a compound
 CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
 CC preventing or ameliorating a disease condition such as haematopoietic
 CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
 CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
 CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
 CC is also useful for diagnosing a pathological condition which involves
 CC determining the presence or amount of Secs-1 or polypeptide encoded by
 CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
 CC susceptibility to pathological condition based on the presence or amount
 CC of expression of the polypeptide. The present sequence is human Secs-1
 CC peptide encoded by third exon.

XX Sequence 28 AA;

Query Match 34.6%; Score 28; DB 23; Length 28;
 Best Local Similarity 100.0%; Pred. No. 6e-21;
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 54 GHVRLCKPCKLEPEPRLWVPGALPOV 81
 |||||
 Db 1 GHVRLCKPCKLEPEPRLWVPGALPOV 28

RESULT 4

AAE16484
 ID AAE16484 standard; peptide; 23 AA.

XX AAE16484;

XX 09-APR-2002 (first entry)

DE Human Secreted epithelial colon stromal-1 (Secs-1) peptide #1.

XX Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
 KW haematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
 KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
 KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
 KW anorectic; immunomodulator; antipsoriatic; vulnery; antiinfertility;
 KW gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
 KW human.

XX Homo sapiens.

XX WO200198497-A1.

XX 27-DEC-2001.

XX 28-NOV-2000; 2000WO-US32479.

XX 21-JUN-2000; 2000US-0599087.

XX 28-NOV-2000; 2000US-0724000.

XX (AMGE-) AMGEN INC.

XX Polverino AJ, Luethy R;

XX WPI; 2002-122281/16.

XX N-PSDB; AAD27026.

PT Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
 PT useful for diagnosing, treating and preventing hematopoietic disorder,

XX osteoporosis, Paget's disease, cancer, diabetes -

XX Disclosure; Fig 4A; 134pp; English.

XX The present invention relates to an isolated murine or human secreted
 CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
 CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
 CC therapy and cell therapy. Secs-1 is useful for identifying a compound

CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
 CC preventing or ameliorating a disease condition such as haematopoietic
 CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
 CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
 CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
 CC is also useful for diagnosing a pathological condition which involves
 CC determining the presence or amount of Secs-1 or polypeptide encoded by
 CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
 CC susceptibility to pathological condition based on the presence or amount
 CC of expression of the polypeptide. The present sequence is human Secs-1
 CC peptide encoded by first exon.

XX Sequence 23 AA;

Query Match 28.4%; Score 23; DB 23; Length 23;
 Best Local Similarity 100.0%; Pred. No. 5.4e-16;
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MRLVLSSLCLLLCFISFSTE 23

Db 1 MRLVLSSLCLLLCFISFSTE 23

RESULT 5

AAE16480
 ID AAE16480 standard; peptide; 54 AA.

XX AAE16480;

XX 09-APR-2002 (first entry)

DE Mouse Secreted epithelial colon stromal-1 (Secs-1) protein fragment.

XX Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
 KW haematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
 KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
 KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
 KW anorectic; immunomodulator; antipsoriatic; vulnery; antiinfertility;
 KW gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
 KW mouse.

XX Mus musculus.

XX WO200198497-A1.

XX 27-DEC-2001.

XX 28-NOV-2000; 2000WO-US32479.

XX 21-JUN-2000; 2000US-0599087.

XX 28-NOV-2000; 2000US-0724000.

XX (AMGE-) AMGEN INC.

XX Polverino AJ, Luethy R;

XX WPI; 2002-122281/16.

XX Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
 PT useful for diagnosing, treating and preventing hematopoietic disorder,
 PT osteoporosis, Paget's disease, cancer, diabetes -

XX Claim 14; Page 120; 134pp; English.

XX The present invention relates to an isolated murine or human secreted
 CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
 CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
 CC therapy and cell therapy. Secs-1 is useful for identifying a compound
 CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
 CC preventing or ameliorating a disease condition such as haematopoietic
 CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
 CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
 CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1

CC is also useful for diagnosing a pathological condition which involves
 CC determining the presence or amount of Secs-1 or polypeptide encoded by
 CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
 CC susceptibility to pathological condition based on the presence or amount
 CC of expression of the polypeptide. The present sequence is mouse Secs-1
 CC protein fragment.

XX SQ Sequence 54 AA;

Query Match 11.1%; Score 9; DB 23; Length 54;
 Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
 Matches 9; Conservative 0; Mismatches 0;

QY 72 WVFGALPQ 80
 |||||
 Db 45 WVFGALPQ 53

RESULT 6
 AAE16483
 ID AAE16483 standard; Protein; 77 AA.

XX AC AAE16483;

XX DT 09-APR-2002 (first entry)

XX DE Rat Secreted epithelial colon stromal-1 (Secs-1) protein.

XX Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
 KW haematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
 KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
 KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
 KW anorectic; immunomodulator; antipsoriatic; vulnary; antiinfertility;
 KW gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
 KW rat.

XX OS Rattus norvegicus.

XX PN WO200198497-A1.

XX PD 27-DEC-2001.

XX PF 28-NOV-2000; 2000WO-US32479.

XX PR 21-JUN-2000; 2000US-0599087.

XX PR 28-NOV-2000; 2000US-0724000.

XX PA (AMGE-) AMGEN INC.

XX PI Polverino AJ, Luethy R;

XX DR WPI; 2002-122281/16.

XX Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
 PT useful for diagnosing, treating and preventing hematopoietic disorder,
 PT osteoporosis, Paget's disease, cancer, diabetes -

XX Disclosure; Fig 3; 134pp; English.

XX The present invention relates to an isolated murine or human secreted
 CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
 CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
 CC therapy and cell therapy. Secs-1 is useful for identifying a compound
 CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
 CC preventing or ameliorating a disease condition such as haematopoietic
 CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
 CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
 CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
 CC is also useful for diagnosing a pathological condition which involves
 CC determining the presence or amount of Secs-1 or polypeptide encoded by
 CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or
 CC susceptibility to pathological condition based on the presence or amount
 CC of expression of the polypeptide. The present sequence is rat Secs-1

CC protein.

XX SQ Sequence 77 AA;

Query Match 11.1%; Score 9; DB 23; Length 77;
 Best Local Similarity 100.0%; Pred. No. 0.21; Indels 0; Gaps 0;
 Matches 9; Conservative 0; Mismatches 0;

QY 72 WVFGALPQ 80
 |||||
 Db 68 WVFGALPQ 76

RESULT 7
 AAE16479
 ID AAE16479 standard; Protein; 78 AA.

XX AC AAE16479;

XX DT 09-APR-2002 (first entry)

XX DE Mouse Secreted epithelial colon stromal-1 (Secs-1) protein.

XX Secreted epithelial colon stromal-1; Secs-1; gene therapy; osteopetrosis;
 KW haematopoietic disorder; osteoporosis; osteogenesis imperfecta; cachexia;
 KW Paget's disease; periodontal disease; hypercalcaemia; glomerulonephritis;
 KW diabetes; obesity; osteopathic; cytostatic; nephrotrophic; antidiabetic;
 KW anorectic; immunomodulator; antipsoriatic; vulnary; antiinfertility;
 KW gynaecological; antiulcer; antiinflammatory; cancer; cell therapy;
 KW mouse.

XX OS Mus musculus.

XX PH Key Location/Qualifiers

FT Peptide 1..24 /label= Signal_peptide

FT Protein 25..78 /label= Mature_mouse_Secs-1_protein

XX WO200198497-A1.

XX PD 27-DEC-2001.

XX PF 28-NOV-2000; 2000WO-US32479.

XX PR 21-JUN-2000; 2000US-0599087.

XX PR 28-NOV-2000; 2000US-0724000.

XX PA (AMGE-) AMGEN INC.

XX PI Polverino AJ, Luethy R;

XX DR WPI; 2002-122281/16.

XX DR N-PSDB; AAD27024.

XX Secreted epithelial colon stromal-1 polypeptides and nucleic acids,
 PT useful for diagnosing, treating and preventing hematopoietic disorder,
 PT osteoporosis, Paget's disease, cancer, diabetes -

XX Claim 13; Fig 3; 134pp; English.

XX The present invention relates to an isolated murine or human secreted
 CC epithelial colon stromal-1 (Secs-1) polypeptide, its allelic or splice
 CC variant, orthologue, fragment or mutant. Secs-1 gene is used in gene
 CC therapy and cell therapy. Secs-1 is useful for identifying a compound
 CC which binds to a Secs-1 polypeptide. Secs-1 is useful for treating,
 CC preventing or ameliorating a disease condition such as haematopoietic
 CC disorder, osteoporosis, osteopetrosis, osteogenesis imperfecta, Paget's
 CC disease, periodontal disease, hypercalcaemia, acute glomerulonephritis,
 CC chronic glomerulonephritis, cancer, diabetes, obesity or cachexia. Secs-1
 CC is also useful for diagnosing a pathological condition which involves
 CC determining the presence or amount of Secs-1 or polypeptide encoded by
 CC Secs-1 DNA in a sample; and diagnosing a pathological condition, or

CC polypeptides. The proteins and their associated DNA sequences are used in
 CC the treatment, prevention and diagnosis of medical conditions caused by
 CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne, puer-
 CC tulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis.
 CC P. acnes is also involved in infections of bone, joints and the central
 CC nervous system, however it is particularly involved in the inflammatory
 CC lesions associated with acne vulgaris. A method for detecting the
 CC presence or absence of P. acnes in a patient comprises contacting a
 CC sample with a binding agent that binds to the proteins of the invention
 CC and determining the amount of bound protein in the sample. The
 CC polypeptides may be used as antigens in the production of antibodies
 CC specific for P. acnes proteins. These antibodies can be used to
 CC downregulate expression and activity of P. acnes polypeptides and
 CC therefore treat P. acnes infections. The antibodies may also be used as
 CC diagnostic agents for determining P. acnes presence, for example, by
 CC enzyme linked immunosorbent assay (ELISA).
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 78 AA;

Query Match 8.6%; Score 7; DB 22; Length 78;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 KAWSGRR 36
 Db 55 KAWSGRR 61
 |||||

RESULT 10

AAB39415
 ID AAB39415 standard; Protein; 25 AA.

AC AAB39415;

DT 02-FEB-2001 (first entry)

DE Human secreted protein sequence encoded by gene 14 SEQ ID NO:74.

KW Human; secreted protein; diagnosis; cytostatic; immunosuppressive;
 KW neurotropic; neuroprotective; antiviral; antiallergic; hepatotropic;
 KW antidiabetic; antiinflammatory; antiulcer; vulnery; anticonvulsant;
 KW antibacterial; antifungal; antiparasitic; cardiant; gene therapy;
 KW food additive; preservative; chromosome identification; cancer;
 KW female reproductive system disorder; immune disorder; wound healing;
 KW cardiovascular disorder; neurological disease; infectious disease;
 KW infection.

XX Homo sapiens.

OS WO200058340-A2.

PN 05-OCT-2000.

PD 23-MAR-2000; 2000WO-US07724.

PF 26-MAR-1999; 99US-0126510.

PR 07-JAN-2000; 2000US-0174850.

XX (HUMA-) HUMAN GENOME SCI INC.

PA Rosen CA, Ruben SM, Komatsoulis G;

PI WPI; 2000-594638/56.

DR N-PSDB; AAC74350.

XX Fifty nucleic acid molecules encoding human secreted proteins, useful
 PT in the prevention, treatment and diagnosis of cancer, immune disorders,
 PT cardiovascular disorders and neurological diseases -

XX Claim 11; Page 362; 391pp; English.

XX The polynucleotide sequences given in AAC74337 to AAC74386 encode the
 CC human secreted proteins given in AAB39402 to AAB39451. AAB39452 to
 CC AAB39484 represent human secreted polypeptide sequences and proteins
 CC homologous to them, which are given in the exemplification of the present
 CC invention. Human secreted proteins have activities based on the tissues
 CC and cells the genes are expressed in. Example of activities include:
 CC cytostatic; immunosuppressive; neurotropic; neuroprotective; antiviral;
 CC antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
 CC vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; and
 CC cardiant. The polynucleotides and polypeptides are useful for preventing,
 CC treating or ameliorating a medical condition in e.g. humans, mice,
 CC rabbits, goats, horses, cats, dogs, chickens or sheep. The polypeptides
 CC can also be used as a food additive or preservative to increase or
 CC decrease storage capabilities. The polynucleotide are useful for
 CC chromosome identification. They are also useful as probes for diagnosing
 CC a disorder related to the female reproductive system, particularly breast
 CC and/or ovary cancer. They are also useful in the gene therapy of breast
 CC and ovarian cancer. Secreted protein nucleic acids, proteins,
 CC antibodies, agonists and antagonists are useful in the diagnosis,
 CC treatment and prevention of: (a) cancer; (b) immune disorders; (c)
 CC cardiovascular disorders; (d) wound healing; (e) neurological diseases;
 CC and (f) infectious diseases such as viral, bacterial, fungal and
 CC parasitic infections. AAC74328 to AAC74336 and AAB39401 represent
 CC sequences used in the exemplification of the present invention.

XX Sequence 25 AA;

Query Match 7.4%; Score 6; DB 21; Length 25;
 Best Local Similarity 100.0%; Pred. No. 79;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 VLSSLL 10
 Db 11 VLSSLL 16
 |||||

RESULT 11

AAU05966

ID AAU05966 standard; Peptide; 28 AA.

XX AAU05966;

DT 24-OCT-2001 (first entry)

DE Cone snail O-superfamily conotoxin, De6.2.

KW Cone snail; O-superfamily conotoxin; sodium channel;
 KW demyelinating disease; multiple sclerosis; Huntington's disease;
 KW neuropathy; carpal tunnel syndrome; cardiovascular disorder;
 KW congestive heart failure; cancer; immunosuppression; epilepsy;
 KW asthma; ischaemia; stroke; pain.

XX Conus delessertii.

XX WO200149312-A2.

XX 12-JUL-2001.

XX 28-DEC-2000; 2000WO-US35431.

XX 30-DEC-1999; 99US-0173754.

XX 26-JUN-2000; 2000US-0214263.

XX 20-JUL-2000; 2000US-0219440.

XX 27-OCT-2000; 2000US-0243412.

XX (UTAH) UNIV UTAH RES FOUND.

PA (COGN-) COGNETIX INC.

XX Olivera BM, Cartier GE, Watkins M, Hillyard DR, McIntosh JM;

PI Layer RT, Jones RM;

XX WPI; 2001-418352/44.

XX New O-superfamily polypeptides useful for treating voltage gated ion
PT channel disorders, including demyelinating diseases i.e. multiple
PT sclerosis -
XX
PS Claim 2; Page 69; 277pp; English.
XX
CC The sequence is a cone snail O-superfamily conotoxin peptide.
CC The peptides are useful for regulating the flow of sodium through
CC sodium channels in an individual and the treatment or prevention of
CC disorders associated with voltage gated ion channel disorders,
CC including demyelinating diseases i.e. multiple sclerosis, optic
CC neuromyelitis, disseminated encephalomyelitis, adrenoleukodystrophy,
CC acute transverse myelitis, progressive multifocal leukoencephalopathy,
CC sub acute sclerosing panencephalomyelitis (SSPE), metachromatic
CC leukodystrophy, Pelizaeus-Merzbacher disease, spinal cord injury,
CC botulinum toxin poisoning, Huntington's, compression, entrapment
CC neuropathies i.e. ulnar nerve palsy, and carpal tunnel syndrome.
CC cardiovascular disorders, i.e. cardiac arrhythmias and congestive heart
CC failure, reactive gliosis, hyperglycaemia, immunosuppression, cocaine
CC addiction, cancer, cognitive dysfunction, neurotransmitter disorders
CC (i.e. Eaton-Lambert syndrome) and reversal of curare and other
CC neuromuscular blocking drugs. The neurological disorder is a seizure,
CC preferably one associated with epilepsy. The neurological disorder is a
CC neurotoxic injury associated with hypoxia, anoxia or ischaemia. The
CC neurotoxic injury is associated with stroke, cerebrovascular accident,
CC brain or spinal cord trauma, myocardial infarct, physical trauma,
CC drownings, suffocation, perinatal asphyxia or hypoglycaemic events. The
CC disorder is pain i.e. migraine, acute pain, persistent pain.
CC neuropathic pain, nociceptive pain. The disorder is inflammation or a
CC cardiovascular disorder. A conotoxin peptide of is useful to
CC alleviate pain in a mammal in pain or about to be subjected to a pain
CC causing event, and to treat disorders associated with radical
CC depolarisation of excitable membranes by activating a K_{ATP} channel, the
CC disorders include cardiac, ocular and cerebral ischaemia and asthma.
XX
SQ Sequence 28 AA;

Query Match 7.4%; Score 6; DB:22; Length 28;
Best Local Similarity 100.0%; Pred. No. 88;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 CILLIC 16
|||
Db 22 CILLIC 27

RESULT 12
AAW81050
ID AAW81050 standard; Peptide; 31 AA.
XX
AC AAW81050;
XX
DT 10-MAY-1999 (first entry)
XX
DE Signal peptide-cytotoxic T cell epitope fusion.
XX
KW MG50; melanoma gene-50; melanoma associated antigen; human;
KW cancer; lung cancer; rhabdomyosarcoma; diagnosis; therapy; vaccine;
KW cytotoxic T cell epitope; signal peptide.
XX
OS Chimeric - Synthetic.
OS Chimeric - Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..21
FT Peptide /note= "signal peptide"
FT Peptide 22..31
FT Peptide /note= "cytotoxic T cell epitope"
XX
PN WO9855133-A1.
XX
PD 10-DEC-1998.

XX 04-JUN-1998; 98WO-US11533.
XX
PR 06-JUN-1997; 97US-0870941.
XX
PA (REGC) UNIV CALIFORNIA.
PA (UYSC-) UNIV SOUTHERN CALIFORNIA.
XX
FI Deans RJ, Kan-Mitchell J, Minev BR, Mitchell MS;
XX
DR WPI; 1999-080820/07.
XX
PT New MG50 melanoma associated antigen fragments - used to develop
PT products for the detection, treatment and prevention of
PT MG50-expressing cancers, e.g. melanoma, lung cancer or
PT rhabdomyosarcoma
XX
PS Claim 12; Page 58; 79pp; English.
XX
CC This peptide comprises a claimed cytotoxic T cell epitope composed
CC of a signal peptide (see AAW81047) and a T cell epitope (see AAW81032)
CC derived from the human MG50 melanoma associated antigen (see
CC AAW81030). The signal peptide can facilitate presentation of the
CC epitope as a complex with an MHC molecule at the surface of an
CC antigen presenting cell (APC). The invention provides additional
CC T cell epitopes (see AAW81031-45) from MG50, and APCs that can
CC express an MG50 T cell epitope complexed with an MHC molecule on
CC their surfaces, and which can be administered to a patient having
CC a cancer that contains MG50-expressing cells in order to stimulate
CC an active immune response. MG50 vaccines comprising an MG50
CC polypeptide, a T cell epitope optionally attached to a signal
CC peptide, an anti-idiotypic antibody or a nucleic acid molecule
CC encoding an MG50 polypeptide or T cell epitope can be administered
CC for preventative or therapeutic purposes. The products and methods
CC are used for the detection, treatment and prevention of e.g.
CC melanoma, lung cancer and rhabdomyosarcoma.
XX
SQ Sequence 31 AA;

Query Match 7.4%; Score 6; DB:20; Length 31;
Best Local Similarity 100.0%; Pred. No. 96;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 13 LLLCFS 18
|||
Db 11 LLLCFS 16

RESULT 13
AAW92181
ID AAW92181 standard; Protein; 32 AA.
XX
AC AAW92181;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human digestive system antigen SEQ ID NO: 1530.
XX
KW Human; digestive system antigen; gene therapy; cancer; appendicitis;
KW ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;
KW digestive system disorder; Meckel's diverticulum.
XX
OS Homo sapiens.
XX
PN WO200155314-A2.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01324.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.

PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226688.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.

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PR 05-JAN-2001; 2001US-0259678.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-502630/55.
DR N-PSDB; AAK87954.
XX
PT Polynucleotides encoding digestive system antigens, useful for
PT diagnosing, treating, preventing and/or prognosing disorders of the
PT digestive system, particularly cancer and cancer metastases -
XX
PS Claim 11; SEQ ID NO 1530; 986pp; English.

XX The present invention provides the protein and coding sequences of a
 CC number of human digestive system antigens. These can be used in the
 CC diagnosis, treatment and prevention of digestive system disorders,
 CC including cancer, Meckel's diverticulum, bacterial or parasitic
 CC infections, appendicitis, Hirschsprung's disease, chronic colitis or
 CC ulcerative colitis. The present sequence is a digestive system antigen of
 XX the invention.

XX Sequence 32 AA;

Query Match 7.4%; Score 6; DB 22; Length 32;
 Best Local Similarity 100.0%; Pred. No. 99;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 13 LLLCFS 18
 |||||
 Db 13 LLLCFS 18

RESULT 14

AAP30235 ID AAP30235 standard; peptide; 39 AA.

AC AAP30235;

XX 25-APR-1992 (first entry)

XX Sequence of corticotropin, adrenocorticotrophic hormone (ACTH)
 DE analogue Tyr23-Phe2-Nle4-ACTH.

XX Hormone; pituitary; growth; adrenal gland.

XX Homo sapiens.

XX Key Location/Qualifiers

FT Modified-site 1 /label= H-Ser

FT Misc-difference 3 /label= Nle

FT Misc-difference 19 /label= Nle

FT Modified-site 39 /label= Phe-OH

FT US4415546-A.

XX 15-NOV-1983.

XX 16-MAY-1983; 83US-0302746.

XX 12-MAY-1981; 81US-0262974.

XX (RAMA/) RAMACHANDRAN J.

XX Ramachandran J, Buckley DL, Yamashiro DH, Hagman JR;

XX WPI; 1983-832889/48.

XX ACTH analogues and their radioiodinated derivs. - useful as

FT corticosterone stimulators and in radioimmunoassays

XX Claim 1; Col 10; 6pp; English.

XX The ACTH analogues have biological activity fully comparable to that
 CC of native ACTH and so are useful for stimulation of corticosterones.
 CC The radioiodinated derivs. are useful in radioimmunoassays, and in
 CC investigations of body processes, and unlike radioiodinated ACTH,
 CC they do not show activity loss.

XX Sequence 39 AA;

Query Match

7.4%; Score 6; DB 4; Length 39;

Best Local Similarity 100.0%; Pred. No. 1.2e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 25 KRRPAK 30
 |||||
 Db 16 KRRPAK 21

RESULT 15

ABP41217 ID ABP41217 standard; Protein; 47 AA.

AC ABP41217;

XX 23-AUG-2002 (first entry)

XX Human ovarian antigen HOCPO31, SEQ ID NO:2349.

XX Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
 KW ovarian cancer; breast cancer; reproductive system disorder;
 KW infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;
 KW PCOS; ovarian cyst; dysmenorrhea; endocrine disorder; infection;
 KW inflammatory condition; immune disorder; blood disorder;
 KW cardiovascular disorder; respiratory disorder; neurological disorder;
 KW gastrointestinal disorder; urinary system disorder; drug screening;
 KW gene therapy; chromosome mapping; forensic analysis;
 KW antibody preparation; cytostatic; immunomodulatory; neuroprotective;
 KW antiinflammatory; gynaecological; reproductive.

XX Homo sapiens.

XX WO200200677-A1.

XX 03-JAN-2002.

XX 07-JUN-2001; 2001WO-US18569.

XX 07-JUN-2000; 2000US-209467P.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Birse CE, Rosen CA;

XX WPI; 2002-147878/19.

XX N-PSDB; ABQ54294.

XX Isolated nucleic acid molecules encoding novel ovarian polypeptides,
 PT useful in the prevention, treatment and diagnosis of cancer (e.g.
 PT ovarian cancer), immune disorders, cardiovascular disorders and
 PT neurological diseases -

PS Claim 11; SEQ ID NO 2349; 2922pp; English.

XX The invention relates to 2175 novel human ovarian antigens (ABP41054-
 CC ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also
 CC encompasses polypeptides 90% identical and polynucleotides 95% identical
 CC to the sequences of the invention. The invention additionally relates to
 CC recombinant vectors and host cells comprising human ovarian antigen
 CC polynucleotides, antibodies against human ovarian antigens, and the use
 CC of ovarian antigen polynucleotides and polypeptides in diagnosing,
 CC treating, prognosing or preventing various ovary and/or breast-related
 CC disorders. Such conditions include ovarian cancer and breast cancer, and
 CC metastatic tumours of ovarian or breast origin, reproductive system
 CC disorders (e.g., infertility, disorders of pregnancy, anovulation,
 CC polycystic ovary syndrome, ovarian cysts, and dysmenorrhea), endocrine
 CC disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic
 CC shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and
 CC vaginitis), immune disorders (e.g., congenital and acquired
 CC immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),
 CC blood-related disorders (e.g., anaemia), cardiovascular disorders,
 CC respiratory disorders, neurological disorders, gastrointestinal disorders
 CC and urinary system disorders. Ovarian antigen polypeptides and
 CC polynucleotides may also be used in screening for compounds which

CC modulate ovarian antigen expression or activity. The polynucleotides may
CC further be used for gene therapy, chromosome mapping, in the
CC identification of individuals and in forensic analysis, and the
CC polypeptides may be used as food additives or to prepare antibodies
CC useful in disease diagnosis, drug targeting and phenotyping. The present
CC sequence represents a human ovarian antigen of the invention.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX
SQ Sequence 47 AA;

Query Match 7.4%; Score 6; DB 23; Length 47;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LSSLIC 11
| | | | |
Db 6 LSSLIC 11

Search completed: May 16, 2003, 15:34:06
Job time : 41 secs

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